A CATALOGUE/CHECKLIST OF THE BUTTERFLIES OF AMERICA NORTH OF MEXICO

by

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The Lepidopterists' Society
Memoir No. 2
1981

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Library of Congress Catalog Card Number: 81-82185
ISBN: 0-930282-02-7
Printed in the United States of America

Phototypesetting by Serbin Printing Inc., Sarasota, Florida.

EDITOR'S NOTE

The *Memoirs* series was initiated in 1964 with the publication of *A Synonymic List of the Nearctic Rhopalocera* by Cyril R. dos Passos. Intended to include only long works of general interest to lepidopterists, the series is just now publishing its second volume after its beginning 16 years ago. With the Society now numbering about 1,500 individual members, and the finances for special publications on a reasonably firm footing, it seems possible that the scope of this branch of the Society's publishing program can be increased to include other long works of wide appeal, other than catalogs or checklists. Toward the objective of a careful expansion of the *Memoirs* I have appointed the following to serve as a *Memoirs* Advisory Board:

Dr. Douglas C. Ferguson, U.S. National Museum, Washington, D. C.
Dr. George L. Godfrey, Illinois Natural History Survey, Urbana, Ill.
Dr. David F. Hardwick, Agriculture Canada, Ottawa, Ontario
Dr. Lee D. Miller, Allyn Museum of Entomology, Sarasota, Fla.
Dr. Theodore D. Sargent, University of Massachusetts, Amherst, Mass.

An impressive record of years of editorial and publishing experience is represented by these five lepidopterists. Together we intend to formulate policy to guide the development of the *Memoirs* series, and accept worthy manuscripts for later publication.

The authors of *Memoir #2* are two of America's most experienced and versatile butterfly taxonomists. Lee Miller has been almost totally absorbed with butterflies since assuming the position of Curator of the Allyn Museum of Entomology in 1968. There, while building the extensive butterfly collection with the able assistance of his wife, Jackie, Lee has published about 60 papers on several groups of butterflies, notably the Hesperiidae and Satyridae, exotic as well of Nearctic. His concepts of classification of North American butterflies are colored by his experience with the world fauna - a rare quality in American lepidopterists today. His reputation is reflected by the fact that many amateur as well as professional students of butterflies seek his opinions regarding identification of specimens and taxonomic questions.

Lee's contributions to the Lepidopterists' Society have also been substantial. He served as member of the Editorial Committee of the *News* from 1961-68, carrying out the function of Zone VIII Coordinator for the Field Season Summary from 1964 to 1968. His editorial abilities are recognized in that he has also served on the Editorial Committee for the *Journal,* and now the *Memoirs* Advisory Board. He has been on the Karl Jordan Medal Awards Committee since its first presentation in 1973. And, most important, he served effectively and diligently as Secretary of the Society from 1972 to 1976.

F. Martin Brown is one of the deans of amateur lepidopterology in North America. Broadly based in geology and engineering as well as biology, "Brownie" has worn a number of professional hats over the years. For many years he was Head of the Science Department at Fountain Valley School, Colorado Springs, Colorado. During that time he produced his best-known work, *Butterflies of Colorado* (1957), with Don Eff and Bernard Rotger. He has written about 200 papers on butterflies of the Western Hemisphere, including descriptions of new taxa, clarifications of historical events in North American lepidopterology, and the statistics of population variation. He is a Charter Member of the Lepidopterists' Society, and was President in 1968. He was elected to Honorary Life Membership in the Society in 1973.

Finally, it seems fitting here to recognize once again the illustrious contributions to butterfly systematics and nomenclature of the author of our first *Memoir,* Cyril F. dos Passos. The *Synonymic List* has been the basis for organization and nomenclature of North American butterflies for over 15 years, and will remain as an important milestone in our science. No arrangement of taxa has yet been proved to be the "right" one, and we expect years and the gristmill of scientific discourse to bring us closer to the ideal of a true phylogenetic classification of the Lepidoptera.

Charles V. Covell, Jr.
Editor of the *Memoirs*

INTRODUCTION

The last catalogue of the American butterflies found north of Mexico was published by Dyar, Bull. U. S. Natl. Mus., (52): xix + 723 pp. (1902), which included all Lepidoptera. The butterfly portion was basically copied by Dyar from Skinner, Syn. Cat. Rhop. N. America (1898). This latter work was amended in 1904. The late 1930's saw a projected catalogue to be published by the Cheyenne Mountain Museum, two parts of which were published: the Hesperioidea by E. L. Bell and the Satyridae by C. F. dos Passos. The death of Spencer Penrose, sponsor of the catalogue, put an end to the project.

Some twenty years ago, we discussed the desirability and feasibility of producing an up-to-date catalogue containing more than the usual information for each name presented. Soon thereafter, dos Passos published his checklist of the butterflies of America North of Mexico, and at that time (1964) he promised a catalogue in a few years. When fifteen years passed without any indication that that catalogue was forthcoming, we decided the time had come to resurrect our original project, and this work is the result.

The present catalogue is a joint effort, and the final product has involved both of us throughout. Representing two well-separated generations of rhopalocerists, we naturally have somewhat different philosophies. For example, the elder of us favors the use of subgenera, the younger does not. Although we have "agreed to disagree" on this point, we have agreed to use no subgeneric names, using names in question as good genera or as synonyms as situations dictate. There were other differences, but we have buried them and striven to make the treatments in the catalogue uniform throughout, each giving way to the other in one place or another.

Throughout preparations we have kept before us those features we thought most useful for the reader. Each of us has spent many hours locating and studying types in numerous museums, and the locations of types of the majority of taxa is given with confidence. In some cases we have not located a particular type but have attempted to given the possible repositories of these specimens in the hope that others can locate them. Please let us know where such types are or if they positively have been lost. In some cases we are unaware of published designations of lectotypes or published creations of neotypes. Again, information on these (and other) points would be most welcome. We believe that the citations of original descriptions and subsequent modifications are correct. Those that differ from the "standard" ones have been changed because of our research and usually there is a footnote to cover the situation. Any inaccuracies should be called to our attention.

Perhaps the numbered footnotes at the end of the book are the most important contributions we have made in this work. These explain our decisions that affect former listings. They are both taxonomic and nomenclatorial. The format of our treatment of the taxa should be self-explanatory. Certain abbreviations that we use may not be readily apparent to all users of this catalogue.

Institutions with significant type holdings are abbreviated throughout the text:

AME — Allyn Museum of Entomology, Sarasota, Florida;
AMNH — American Museum of Natural History, New York, New York;
BM — British Museum (Natural History), London, England;
CAS — California Academy of Sciences, San Francisco, California;
CM — Carnegie Museum of Natural History, Pittsburgh, Pennsylvania;
CNC — Canadian National Collection, Ottawa, Ontario, Canada;
FMNH — Field Museum of Natural History, Chicago, Illinois (types of butterflies on indefinite loan to AME);
LACM — Natural History Museum of Los Angeles County, Los Angeles, California;
MCZ — Museum of Comparative Zoology, Harvard University, Cambridge, Massachusetts;
MNHN — Museum Nationale de Histoire Naturelle, Paris, France;

USNM — National Museum of Natural History, Smithsonian Institution, Washington, D. C.;
YPM — Peabody Museum, Yale University, New Haven, Connecticut; and
ZMHU — Zoologische Museum der Humboldt Universität, Berlin, East Germany.

Kinds of type specimens are denoted by a shorthand, as follows:
HT — holotype;
AT — allotype;
LT — lectotype;
NT — neotype; and
ST — syntype.

Abbreviations of periodicals can usually be found in the *World List of Scientific Periodicals,* whereas titles of books published before 1900 may be found in Horn and Schenkling, *Index Litteraturae Entomologicae* (ser. 1): 4 vols. (1928) and Derksen and Scheiding (ser. 2): 4 vols. (1962).

A few words on the use of this Catalogue/Checklist may be informative. Genera are sequentially numbered throughout the body of the text, whereas species and subspecies are double-entered. Thus, when one looks at the species *Asbolis capucinus* (Lucas), it is apparent that it is the single species in North America of genus number LXXVIII, as well as the 218th species in a checklist format. Further, by examining the citation one can see that Lucas originally described *capucinus* in the genus *Eudamus.* Under the format, this species could either be numbered in the sequence as "LXXVIII-1" or as "218"; for purposes of the index we have selected the latter citation. Subspecies are denoted with lower case letters following the species number: thus, *Atrytonopsis hianna hianna* (Scudder) is listed in the checklist portion of the text as "219a", to set it apart from *A. hianna turneri* H. A. Freeman which is denoted as "219b".

Taxa preceded by an asterisk (*) either do not occur in the area covered by this book, or are of doubtful occurrence there. Names preceded by a double dagger (‡) are preoccupied or otherwise unavailable. Taxa preceded by a dagger (†) are known to now be extinct: taxa suspected of being extinct (*Parnassius clodius stohbeeni*) are not so noted.

Any catalogue or checklist is out of date before it leaves the printer: this is no exception. We believe it to be complete through 1979 and to include many, if not all, taxa published during early 1980. Some names will be found that have been omitted from the *Zoological Record,* especially those published in early volumes of *The Lepidopterists' News* and *The Journal of Research on the Lepidoptera.* There are a few tropical taxa that we know have been taken in the southern United States, but these records have not yet been published. These are not included in this catalogue, pending formal reports by other rhopalocerists of their capture. We have included only those taxa recorded in the literature.

The responsibility for what is included and what is not is jointly ours. Every knotty problem has been considered by both of us, discussed (often at length) and final decisions jointly made. The sequence of taxa at all levels from the superfamily to the genus follows the order generally accepted by taxonomists of worldwide background. This sequence may be found to differ from arrangements found in popular books, some of which are quite parochial in approach. Within genera we follow the best available revision or, in the absence of one, our own opinions based on study of material in the major collections of North America.

No such work as this can be produced without consultation and discussion with many specialists. A partial listing of those on whom we have leaned heavily includes: the late Mr. Harry K. Clench (Pittsburgh), Dr. Clifford D. Ferris (Laramie, Wyoming), Dr. Raymond E. Stanford (Denver), Mr. Kilian Roever (Phoenix, Arizona), Mr. Julian P. Donahue (Los Angeles), Dr. Arthur M. Shapiro (Davis, California), Dr. F. H. Rindge (New York), Dr. A. B. Klots (New York), Dr. Eugene Munroe (Ottawa), Dr. David Hardwick (Ottawa), the late Dr. T. N. Freeman (Ottawa), Dr. J. F. Gates Clarke (Washington, D. C.), Dr. Curtis Sabrosky (Washington, D. C.), Mr. William D. Field

(Washington, D. C.), Mr. Paddy McHenry (Burbank, California), Mr. A. C. Allyn (Sarasota, Florida) and Dr. C. V. Covell, Jr. (Louisville, Kentucky).

Mr. Field's card index of original descriptions of butterflies was invaluable, and we are grateful to Dr. Donald Davis of the Smithsonian Institution for arranging the loan of it for our use.

Mr. and Mrs. Jack J. Serbin of Sarasota, Florida, arranged for and donated much of the typescript for this catalogue/checklist, and Mrs. Naomi Morgan did the actual typesetting, as well as being patient with corrections of mistakes through long Saturdays and Sundays at Serbin Printing, Inc. Without their help the final product would have been much less attractive.

The index was put into final typescript on the word processor at the Department of Zoology, University of Florida, Gainesville, Florida, under the direction of Dr. Thomas C. Emmel.

Two other people deserve special recognition for their yeoman service in the production of this document. Mr. Stephen R. Steinhauser of Sarasota spent many long hours patiently verifying the copy with the original manuscript, a chore that only one who has gone through it can appreciate. The wife of the senior author, Mrs. Jacqueline Y. Miller, was involved with the entire creation of this catalogue/checklist, doing research, proofreading, checking galley proofs, and the like. Without their help and encouragement this document could not have achieved whatever excellence it has.

Without the help of friends and colleagues, named and unnamed, this catalogue would have been impossible. We dedicate it to all of them and to future lepidopterists.

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Superfamily **HESPERIOIDEA** Latreille

Genera Crustaceorum et Insectorum, 4: 207 (1809) [see **Notes 1, 2, 3**].

Family **HESPERIIDAE** Latreille

Genera Crustaceorum et Insectorum, 4: 207 (1809) [see **Notes 1, 2**].

Subfamily **Pyrrhopyginae** Mabille

Ann. Soc. Ent. Belgique, 21: 12 (1878).

Genus I: **Pyrrhopyge** Hübner

Verz. bekannt. Schmett., (7): 103 [1819]. Type-species by designation of Scudder, 4th Ann. Rept. Peabody Acad. Sci., [1871]: 67 (1872), *Papilio bixae* Linnaeus, Syst. Nat., ed. 10, 1: 485 (1758) (= *Papilio phidias* Linnaeus, Syst. Nat., ed. 10, 1: 485; 1758) [see **Note 4**].

= *Tamyris* Swainson, Zool. Illustr., (1)1(6), pl. 33 [1821]. Type-species by monotypy *Hesperia zeleucus* Fabricius, Ent. Syst., 3(1): 346 (1793) (= *Papilio phidias* Linnaeus, Syst. Nat., ed. 10, 1: 485; 1758).

= *Pachyrhopala* Wallengren, Ofvers. VetenskAkad. Forh., Stockholm, 15: 81 (1858). Type-species by original designation *Papilio phidias* Linnaeus, Syst. Nat., ed. 10, 1: 485 (1758).

= *Yanguna* E. Y. Watson, Proc. Zool. Soc. London, [1893]: 10, 12 (1893). Type-species by original designation *Pyrrhopyga* [*sic.*] *spatiosa* Hewitson, Descr. twenty-two new spp. Equatorial Lepid.: 69 (1870).

= *Apyrrothrix* Lindsey, Univ. Iowa Stud. Nat. Hist., 9: 15 (1921). Type-species by original designation *Erycides araxes* Hewitson, Descr. one-hundred new spp. Hesp., (1): 2 (1867) [see **Note 5**].

*1. **araxes** (Hewitson) *ERYCIDES*. Descr. one-hundred new spp. Hesp., (1): 2 (1867). TL — "Mexico". HT in BMNH.

= *cyrillus* (Plötz) *PYRRHOPYGA*. Stettiner Ent. Ztg., 40: 529 (1879). TL — Oaxaca, Mexico. Type may be in ZMHU, Munich or lost (see **Note 6**].

a. **a. arizonae** Godman and Salvin. Biol. Cent.-Americana, Lepid. Rhop., 2: 253 [1893]. TL — nr. Fort Grant, Graham Co., Arizona. HT in BMNH. **1a.**

Subfamily **Pyrginae** Burmeister

Descr. Phys. Rép. Argentina, 5, Lepid. 1: 24 (1878).

Genus II: **Phocides** Hübner

Verz. bekannt. Schmett., (7): 103 [1819]. Type-species by designation of Scudder, Proc. American Acad. Arts Sci., 10: 248 (1875), *Phocides cruentus* Hübner, Verz. bekannt. Schmett., (7): 103 [1819] (= *Papilio palemon*, Cramer, Uitl. Kapellen, 2: 54 [1777]).

= *Erycides* Hübner. Verz. bekannt. Schmett., (7): 110 [1819]. Type-species by designation of Scudder, 4th Ann. Rept. Peabody Acad. Sci., [1871]:

67 (1872), *Papilio pigmalion* Cramer, Uitl. Kapellen, 3: 87 [1779].

= *Dysenius* Scudder, 4th Ann. Rept. Peabody Acad. Sci., [1871]: 67 (1872), Type-species by original designation *Erycides albicilla* Herrich-Schäffer, CorrespBl. zool.-min. Ver. Regensburg, 23: 169 (1869) (= *Erycides lilea* Reakirt, Proc. Acad. Nat. Sci. Philadelphia, [1866]: 339 [1867], a subspecies of *Papilio palemon* Cramer, Uitl. Kapellen, 2: 54 [1777]).

*1. **pigmalion** (Cramer) *PAPILIO.* Uitl. Kapellen, 3: 87 [1779]. TL — "Surinam". Type probably lost [see **Note 7**].

= *tenuistriga* Mabille and Boullet. Ann. Sci. Nat., Zool., (9)16: 16, 21, 22 (1912). TL — "Colombie, Perou, Brésil", restricted to Colombia by Evans, Cat. American Hesp. . . British Mus., (2): 13 (1952). Type may be in MNHN.

= *vulcanides* Röber. Ent. Mitteil., 14: 93, 94 (1925). TL — "Colombia". Type may be in Dresden.

= *iocularis* Röber. Ent. Mitteil., 14: 159, 160 (1925). TL — "Colombia". Type may be in Dresden.

= *disparilis* Röber. Ent. Mitteil., 14: 160 (1925). TL — "Colombia". Type may be in Dresden.

a. **p. okeechobee** (Worthington) *ERYCIDES.* Papilio, 1: 133 (1881). TL — Marco Island, Collier Co., Florida. Loc. of type not known [see **Note 8**]. 2a.

*2. **palemon** (Cramer) *PAPILIO.* Uitl. Kapellen, 2: 54 [1777]. TL — "Surinam". Type probably lost [see **Note 7**]. Not homonymus with *Papilio palaemon* Pallas, Reise durch verscheid. Russisch., Prov. 1: 471 (1771).

polybius (Fabricius) *PAPILIO.* Ent. Syst., 3: 337 (1793). TL — "Indiis". Type lost, *ex colln.* Drury.

= *cruentus* Hübner. Verz. bekannt. Schmett., (7): 103 [1819]. TL not stated. Type may be in Vienna or lost [see **Note 9**].

= ab. "gunderi" R. C. Williams and Bell. Trans. American Ent. Soc., 57: 251 (1931). TL — Rockstone, Essequebo R., British Guiana. HT in CM.

a. **p. lilea** (Reakirt) *ERYCIDES.* Proc. Acad. Nat. Sci. Philadelphia, [1866]: 339 [1867]. TL — "Mexico, nr. Veracruz". HT may be in FMNH, CM or lost. 3a.

= *albicilla* Herrich-Schäffer) *ERYCIDES.* CorrespBl. zool.-min. Ver. Regensburg, 23: 169 (1869). TL — "tropical America". Type probably in Vienna.

= *socius* (Butler and H. Druce) ERYCIDES. Cist. Ent., 1: 112 (1872). TL — Cartago, Costa Rica. HT in BMNH.

= ‡*cruentus* (Scudder) *DYSENIUS.* 4th Ann. Rept. Peabody Acad. Sci., [1871]: 67 (1872). TL — "Guatemala". Type may be in MCZ. Preoccupied by *Phocides cruentus* Hübner, Verz. bekannt. Schmett., (7): 103 [1819].

= *sanguinea* (Scudder) *ERYCIDES.* 4th Ann. Rept. Peabody Acad. Sci., [1871]: 68 (1872). TL — "Texas (Mexican Boundary Survey)". Type may be in MCZ.

= *decolor* Mabille. Bull. Soc. Ent. France, (5)10: 46 (1880). TL not stated. HT in BMNH.

= *albiciliata* Röber. Ent. Mitteil., 14: 159 (1925). TL — "Guatemala". Type may be in Dresden.

3. **urania** (Westwood) *ERYCIDES.* Gen. diurn. Lepid., (2): 510 [1852]. TL — "Mexico". HT in BMNH [see **Note 10**]. 4.

= *texana* (Scudder) *ERYCIDES.* 4th Ann. Rept. Peabody Acad. Sci., [1871]: 68 (1872). TL — "Texas" (Mexican Boundary Survey). Type may be in MCZ.

Genus III: **Proteides** Hübner

Verz. bekannt. Schmett., (7): 105 [1819]. Type-species by designation of Butler, Ent. Mo. Mag., 7: 93 (1870), *Papilio mercurius* Fabricius, Mant. Ins., 2: 86 (1787).

= *Dicranaspis* Mabille, Ann. Soc. Ent. Belgique, 21: 24 (1878). Type-species by monotypy *Papilio idas* Cramer, Uitl. Kapellen, 3: 118 [1779], not *Papilio idas* Linnaeus, Syst. Nat., ed. 10, 1: 488 (1758), accepted by I. C. Z. N. (Opinion 269) (=*Papilio mercurius* Fabricius, Mant. Ins., 2: 86; 1787).

1. **mercurius** (Fabricius) *PAPILIO.* Mant. Ins., 2: 86 (1787). TL — Cayenne [French Guiana]. LT in Kiel.

a. **m. mercurius** (Fabricius) *PAPILIO.* Mant. Ins., 2: 86 (1787). TL — Cayenne [French Guiana]. LT in Kiel. **5a.**

= ‡*idas* (Cramer) *PAPILIO.* Uitl. Kapellen, 3: 118 [1779]. TL — "Surinam". Type probably lost [see **Note 7**]. Preoccupied by *Papilio idas* Linnaeus, Syst. Nat., ed. 10, 1: 488 (1758); I.C. Z. N. (Opinion 269).

b. **m. sanantonio** (Lucas) *EUDAMUS. in* Sagra, Hist. Cuba, 7: 626 (1857). TL — "Cuba". HT in MNHN. **5b.**

Genus IV: **Epargyreus** Hübner

Verz. bekannt. Schmett., (7): 105 [1819]. Type-species by designation of Scudder, 4th Ann. Rept. Peabody Acad. Sci., [1871]: 70 (1872), *Papilio tityrus* Fabricius, Syst. Ent.: 532 (1775), not *P. tityrus* Poda, Ins. Mus. graec.: 77 (1761) (=*Papilio clarus* Cramer, Uitl. Kapellen, 1: 66 [1775]).

= *Eridamus* Burmeister, Rev. Mag. Zool., (3)3: 51-59 (1875). Type-species by designation of Evans, Cat. American Hesp. . .British Mus., (2): 44 (1952), *Goniurus tmolis* Burmeister, Rev. Mag. Zool., (3)3: 64 (1875).

1. **zestos** (Geyer) *PROTEIDES.* in Hübner, Zutr. z. Samml. exot. Schmett., 4: pl. [106] (1832). TL — "Surinam" (probably in error). Type probably lost, may be in Vienna [see **Note 11**]. **6.**

= *oberon* (Worthington) *EUDAMUS.* Papilio, 1: 132 (1881). TL — Marco Island, Collier Co., Florida. Loc. of type not known.

= *arsaces* Mabille. Gen. Ins., 17 A: 24 (1903). TL — St. Thomas Island Type probably in MNHN or BM.

2. **clarus** (Cramer) *PAPILIO.* Uitl. Kapellen, 1: 66 [1775]. TL — "Surinam" (probably in error), restricted to Dayton, Rockingham Co., Virginia, by Dixon, Ent. News, 66: 7 (1955). NT in CM, designated by Dixon, Ent. News, 66: 7 (1955).

a. **c. clarus** (Cramer) *PAPILIO.* Uitl. Kapellen, 1: 66 [1775]. TL — "Surinam" (probably in error), restricted to Dayton, Rockingham Co., Virginia, by Dixon, Ent. News, 66: 7 (1955). NT in CM, designated by Dixon, Ent. News, 66: 7 (1955). **7a.**

= ‡ *tityrus* (Fabricius) *PAPILIO.* Syst. Ent.: 532 (1775). TL — "in America", restricted to Dayton, Rockingham Co., Virginia, by Dixon, Ent. News, 66: 7 (1955) (correctly?). ST's in Kiel. Preoccupied by *Papilio tityrus* Poda, Ins. Mus. graec.: 77 (1761).

= *argentosus* Hayward. Rev. Soc. Ent. Argentina, 5: 175 (1933). TL — "Tierra del Fuego" (in error). HT in Museo Argentino de Ciencias Naturales, Buenos Aires.

= *argenteola* (Matsumura) *BIBASIS.* Insecta Matsumura (Sapporo, Japan), 15: 1 (1940). TL — "Formosa" (in error), stated to be Nearctic by Evans, Cat. Hesp. Europe, Asia and Australia: 477 (1949). Loc. of type not known.

=ab. "obliteratus" Scudder. Butt. E. U. S. and Canada, 2: 1402 (1889). TL — nr. Boston, Massachusetts. Type may be in MCZ.
=ab. "smythi" R. C. Williams. Trans. American Ent. Soc., 53: 262 (1927). TL — Charleston, South Carolina. HT in CM.

b. **c. huachuca** Dixon. Ent. News, 66: 7-9 (1955) TL — Huachuca Mtns., Cochise Co., Arizona. HT in CM. **7b.**

*3. **exadeus** (Cramer) *PAPILIO.* Uitl. Kapellen, 3: 118 [1779]. TL — "Surinam". Type probably lost [see **Note 7**].

a. **e. cruza** Evans. Cat. American Hesp. . .British Mus., (2): 50 (1952). TL — Cordoba, Veracruz, Mexico. HT in BM. **8a.**

Genus V: **Polygonus** Hübner

Samml. exot. Schmett., 2: pl. [144] [1825]. Type-species by monotypy *Polygonus lividus* Hübner, Samml. Exot. Schmett., 2: pl. [144] [1825] (=*Papilio leo* Gmelin, Syst. Nat., ed. 13, 1: 2363; 1790).

= ‡ *Acolastus* Scudder, 4th Ann. Rept. Peabody Acad. Sci., [1871]: 71 (1872). Type-species by original designation *Hesperia savigny* Latreille, Enc. Meth., 9: 741 [1824] (=*Papilio leo* Gmelin, Syst. Nat., ed. 13, 1: 2363; 1790, subspecies). Preoccupied by *Acolastus* Gerstäcker, MonatsBer. Akad. Wiss. Berlin, [1855]: 636 (1855).

= *Nennius* W. F. Kirby, *in* P. Wytsman, facsimile of Hübner's Samml. exot. Schmett., addit. notes: 105 [1902]. Type-species as replacement name *Polygonus lividus* Hübner, Samml. exot. Schmett., 2: pl. [144] [1825] (=*Papilio leo* Gmelin, Syst. Nat., ed. 13, 1: 2363, 1790). Proposed to replace *Polygonus,* wrongly thought to be preoccupied.

1. **leo** (Gmelin) *PAPILIO.* Syst. Nat., ed. 13, 1: 2363 (1790). TL — "Antilles", a replacement name for *amyntas* Fabricius, *PAPILIO,* Syst. Ent.: 553 (1775) (preoccupied). Fabrician specimens of *amyntas* in Kiel (see below). **9.**

=‡*amyntas* (Fabricius) *PAPILIO.* Syst. Ent.: 533 (1775). TL — "in America", probably St. Croix. Two Fabrician specimens (ST's?) in Kiel. Preoccupied by *Papilio amyntas* Poda, Ins. Mus. graec.: 79 (1761).

= *savigny* (Latreille) *HESPERIA.* Enc. Meth., 9: 741 [1824]. TL — "Antilles". Type probably in MNHN [see **Note 12**].

= *histrio* Röber. Ent. Mitteil., 14: 161 (1925). TL — "Panama". Type probably was in Dresden.

= fm. "arizonensis" (Skinner) *ERYCIDES.* Trans. American Ent. Soc., 37: 209 (1911). TL — Florence, Pima Co., Arizona. HT in CM.

= fm, "pallida" Röber. Ent. Mitteil., 14: 99 (1925). TL — "Brasil". Type probably was in Dresden.

2. **manueli** Bell and W. P. Comstock. American Mus. Novitates, (1379): 4-7 (1948). TL — New Bremen, Sta. Catharina, Brasil. HT in AMNH. **10.**

Genus VI: **Chioides** Lindsey

Univ. Iowa Stud. Nat. Hist., 9(4): 25 (1921). Type-species by original designation *Eudamus albofasciatus* Hewitson, Descr. one-hundred new spp. Hesp., (1): 3 [1867] (*Papilio catillus* Cramer, Uitl. Kapellen, 3: 119, [1780], subspecies).

*1. **catillus** (Cramer) *PAPILIO.* Uitl. Kapellen, 3: 119 [1780]. TL — "Surinam". Type may be lost [see **Note 7**].

= *tarchon* (Hübner) *TELEGONUS.* Samml. exot. Schmett., 2: pl. [145] [1825]. TL — not stated. Type probably lost, but may be in

Vienna [see **Note 9**].
= *longicauda* (Sepp) *PAPILIO*. Surinamische Vlinder., 2: pl. 90 (1848). TL — "Surinam". Type lost.

a. **c. albofasciatus** (Hewitson) *EUDAMUS*. Descr. one-hundred new spp. Hesp., (1): 3 [1867]. TL — Polochic Valley, Guatemala. HT in BM. **11a.**

2. **zilpa** (Butler) *GONIURUS*. Lepid. Exot.: 109 (1874). TL — Cartago, Costa Rica. HT in BM.

a. **z. zilpa** (Butler) *GONIURUS*. Lepid. Exot.: 109 (1874). TL — Cartago, Costa Rica. HT in BM. **12a.**

b. **z. namba** Evans. Cat. American Hesp. . .British Mus., (2): 58 (1952). TL — Magdalena, N. Sonora, Mexico. HT in BM. **12b.**

Genus VII: **Aguna** R. C. Williams

Trans. American Ent. Soc., 53: 286 (1927). Type-species by original designation *Eudamus camagura* R. C. Williams, Trans. American Ent. Soc., 52: 81 (1926).
= ‡ *Tmetocerus* Poujade, Bull. Soc. Ent. France, 20: 144 (1895). Type-species by monotypy *Eudamus asander* Hewitson, Descr. one-hundred new spp. Hesp., (1): 9 [1867]. Preoccupied by *Tmetocerus* Hartert, Kat. Vögelsamml. Mus. Senckenberg: 141 (1891).

1. **asander** (Hewitson) *EUDAMUS*. Descr. one-hundred new spp. Hesp., (1): 9 [1867]. TL — Ega, Amazonas [Brasil]. HT in BM. **13.**
= *panthius* (Herrich-Schäffer) *EUDAMUS*. CorrespBl. zool.-min. Ver. Regensburg, 23: 174 (1869. TL not stated. Type may be in Vienna.
= *scheba* (Plötz) *EUDAMUS*. Stettiner Ent. Ztg., 43: 94 (1882). TL "South America". Type may be in Munich, ZMHU or lost [see **Note 6**].
= *euthemides* (Mabille and Boullet) *EPARGYREUS*. Ann. Sci. Nat., Zool., 16: 65 (1917). TL not stated. Loc. of type not known (Plötz Ms. name).

2. **claxon** Evans. Cat. American Hesp. . .British Mus., (2): 60 (1952). TL — Atoyac, Veracruz, Mexico. HT in BM. **14.**

3. **metophis** (Latreille) *HESPERIA*. Enc. Meth. 9: 729 [1824]. TL — "Brasil". HT in BM. **15.**

Genus VIII: **Typhedanus** Butler

Trans. Ent. Soc. London, [1870]: 497 (1870). Type-species by monotypy *Typhedanus zephus* Butler, Trans. Ent. Soc. London, [1870]: 497 (1870) (= *Cobalus umber* Herrich-Schäffer, CorrespBl. zool.-min. Ver. Regensburg, 23: 203, 1869).

1. **undulatus** (Hewitson) *EUDAMUS*. Descr. one-hundred new spp. Hesp., (1): 4 [1867]. TL not stated. HT in BM. **16.**
= *sumichrasti* (Scudder) *THYMELE*. 4th Ann. Rept. Peabody Acad. Sci., [1871]: 69 (1872). TL — Tehuantepec, Mexico. HT may be in MCZ.
= *nicasius* (Plötz) *GONIURUS*. Bull. Soc. Imp. Nat. Moscou, 55: 4 (1880). TL — "Brasil". Type may be in Munich, ZMHU or lost [see **Note 6**].
= *elongatus* (Plötz) *GONIURUS*. Bull. Soc. Imp. Nat. Moscou, 55: 4 (1880). TL — "Brasil". Type may be in Munich, ZMHU or lost [see **Note 6**].

Genus IX: **Polythrix** E. Y. Watson

Proc. Zool. Soc. London, [1893]: 16, (1893). Type-species by original designation *Eudamus metallescens* Mabille, Le Naturaliste, (2)2: 108 (1888).

1. **mexicanus** H. A. Freeman. Suppl. Lepid. Soc., (2): 10 (1969). TL — 7 mi. S of Cd. Valle, San Luis Potosi, Mexico. HT in USNM. 17.
2. **octomaculata** (Sepp) *PAPILIO.* Surinamische Vlinder., 2: pl. 90 (1848). TL — "Surinam". Loc. of type not known [see **Note 13**]. 18.
   = *decurtata* (Herrich-Schäffer) *EUDAMUS.* CorrespBl. zool.-min. Ver. Regensburg, 23: 170 (1869). TL not stated. Type may be in Vienna.
   = *calenus* (Mabille) *EUDAMUS.* Le Naturaliste, 10: 99 (1888). TL — "Guatemala". Type may be in MNHN.
   = *elegans* (Hayward) *URBANUS.* Rev. Soc. Ent. Argentina, 5: 165 (1933). TL — Missiones, Argentina. HT in collection Breyer.
3. **procerus** (Plötz) *GONIURUS.* Bull. Soc. Imp. Nat. Moscou, 55: 819. (1880). TL — Para, Brasil. Type apparently in ZMHU, according to original description [see **Note 6**].
   = *aelius* (Plötz) *GONIURUS.* Bull. Soc. Imp. Nat. Moscou, 55: 8 (1880). TL — Para, Brasil. Type apparently in ZMHU, according to original description [see **Note 6**].
   = *auginulus* (Godman and Salvin) *EUDAMUS.* Biol Cent.-Americana, Lepid. Rhop., 2: 284 (1893). TL — Zapote, Guatemala, designated by Evans, Cat. American Hesp. . .British Mus., (2): 70 (1952). HT in BM.
   = *callicina* (Schaus) *EUDAMUS.* Proc. U. S. Natl. Mus., 24: 425 (1902). TL — "Honduras". HT in USNM.

Genus X: **Zestusa** Lindsey

Ann. Ent. Soc. America, 18: 106 (1925). Type-species as replacement name *Plestia staudingeri* Mabille, Le Naturaliste, (2)2: 146 (1888).
   = ‡ *Plestia* Mabille, Le Naturaliste, (2)2: 146 (1888). Type-species by monotypy *Plestia staudingeri* Mabille, Le Naturaliste, (2)2: 146 (1888). Preoccupied by *Plestia* Stal, Ofvers. VetenskAkad. Forh., 27: 768 [1871].

1. **dorus** (W. H. Edwards) *EUDAMUS.* Papilio, 2: 140 (1882). TL — Mt. Graham, Graham Co., Arizona, restricted by F. M. Brown and L. Miller, Trans. American Ent. Soc., 101: 600 (1975). LT in CM, designated by F. M. Brown and L. Miller, Trans. American Ent. Soc., 101: 602 (1975). 20.

Genus XI: **Codatractus** Lindsey

Univ. Iowa Stud. Nat. Hist., 9(4): 26 (1921). Type-species as replacement name *Heteropia imitatrix* Mabille, Le Naturaliste, (2)11: 68 (1889) (=*Eudamus bryaxis* Hewitson, Descr. one-hundred new spp. Hesp., (1): 11 [1867], subspecies).
   = ‡ *Heteropia* Mabille, Le Naturaliste, (2)11: 68 (1889). Type-species by designation of Watson, Proc. Zool. Soc. London, [1893]: 22 (1893), *Heteropia imitatrix* Mabille, Le Naturaliste, (2)11: 68 (1889) (=*Eudamus bryaxis* Hewitson, Descr. one-hundred new spp. Hesp., (1): 11 [1867], subspecies). Preoccupied by *Heteropia* Carter, Ann. Mag. Nat. Hist., (5)18: 47 (1886).

1. **alcaeus** (Hewitson) *EUDAMUS.* Descr. one-hundred new spp. Hesp., (1): 21.

3 [1867]. TL — "Nicaragua". HT in BM.
= *montezuma* (Scudder) *THYMELE*. 4th Ann. Rept. Peabody Acad. Sci., [1871]: 70 (1872). TL — Tehuantepec, Mexico. Type should be in MCZ.

2. **melon** (Godman and Salvin) *HETEROPIA*. Biol. Cent.-Americana, Lepid. Rhop., 2: 297 (1893). TL — Guerrero, Mexico, restricted by Evans, Cat. American Hesp. . .British Mus., (2): 79 (1952). ST's in BM. 22.
3. **arizonensis** (Skinner) *EUDAMUS*. Ent. News, 16: 232 (1905). TL — Pima Co., Arizona. HT in CM. 23.

Genus XII: **Urbanus** Hübner

Samml. exot. Schmett., 1: pl. [150], [151], [155], [159]; [1807]. Type-species by designation of Hemming, Entomologist, 66: 200 (1933) *Papilio proteus* Linnaeus, Syst. Nat., ed. 10, 1: 484 (1758) (figured by Hübner, Samml. exot. Schmett.: pl. [155], [1807]).
= *Goniurus* Hübner, Verz. bekannt. Schmett., (7): 104 [1819]. Type-species by designation of Westwood, Gen. diurn. Lepid., (2): 510 [1852], *Papilio proteus* Linnaeus, Syst. Nat., ed. 10, 1: 484 (1758) [see **Note 14**].
= *Eudamus* Swainson, Zool. Illustr., (2)2: pl. 48 (1821). Type-species by original designation *Papilio proteus* Linnaeus, Syst. Nat., ed. 10, 1: 484 (1758).
= *Lyroptera* Plötz, Stettiner Ent. Ztg., 42: 500 (1881). Type-species by monotypy *Papilio proteus* Linnaeus, Syst. Nat., ed. 10, 1: 484 (1758).

1. **proteus** (Linnaeus) *PAPILIO*. Syst. Nat., ed. 10, 1: 484 (1758). TL — "America". Type lost. 24.
2. **pronta** Evans. Cat. American Hesp. . .British Mus., (2): 88 (1952). TL — San Pedro Sula, Honduras. HT in BM. 25.
3. **esmeraldus** (Butler) *GONIURUS*. Trans. Ent. Soc. London, [1877]: 146-147 (1877). TL — "Villa Bella", stated by Evans, Cat. American Hesp. . .British Mus., (2): 51 (1952) to be Villa Nova, Amazonas, Brasil. HT in BM. 26.
4. **dorantes** (Stoll) *PAPILIO*. Aanhangs. Werk Uitl. Kapellen Pieter Cramer: 149 [1790]. TL — "Surinam". Type probably lost [see **Note 15**].
a. **d. dorantes** (Stoll) *PAPILIO*. Aanhangs. Wek Uitl. Kapellen Pieter Cramer: 149 [1790]. TL — "Surinam". Type probably lost [see **Note 15**]. 27a.
= ‡ *proteus* Hübner. Samml. exot. Schmett., 1: pl. [155], figs. 1, 3 [1807], not Linnaeus, Syst. Nat., ed. 10, 1: 484 (1758). Misidentification.
= *torones* (Hübner) *GONIURUS*. Index exot. Lepid.: 6 [1821]. TL not stated. Type probably lost [see **Note 9**].
= *atletes* (C. and R. Felder) *EUDAMUS*. Wiener Ent. Monats., 6: 183 (1862). TL — "Brasil", restricted by Evans, Cat. American Hesp. . .British Mus., (2): 92 (1952). HT in BM.
= *amisus* (Hewitson) *EUDAMUS*. Descr. one-hundred new spp. Hesp., (1): 5 [1867]. TL — "Nicaragua", *fide* Evans, Cat. American Hesp. . . British Mus., (2): 92 (1952). HT in BM.
= *protillus* (Herrich-Schäffer) *EUDAMUS*. CorrespBl. zool.-min. Ver. Regensburg, 23: 171 (1869). TL not stated, but R. C. Williams, Trans. American Ent. Soc., 52: 62 (1926) mentions "tropical America". Type probably in Vienna.
= *retractus* (Plötz) *GONIURUS*. Bull. Soc. Imp. Nat. Moscou, 55: 9 (1880). TL — La Guayra, Venezuela. Type probably lost [see **Note 6**].
= *velinus* (Plötz) *GONIURUS*. Bull. Soc. Imp. Nat. Moscou, 55: 9

(1880). TL — Bahia, Brasil. HT stated to be in ZMHU [see **Note 6**].
= *kefersteinii* (Plötz) *GONIURUS*. Bull. Soc. Imp. Nat. Moscou, 55: 11 (1880). TL — Caracas, Venezuela. Type probably lost [see **Note 6**].
= *rauterbergi* (Skinner) *EUDAMUS*. Ent. News, 6: 113 (1895). TL — Comal Co., Texas. HT in CM.

b. **d. santiago** (Lucas) *EUDAMUS. in* Sagra, Hist. Cuba, 7: 623 (1856). TL — "Cuba". HT probably in MNHN. 27b.
= *cariosa* (Herrich-Schäffer) *GONIURUS*. CorrespBL. zool.-min. Ver. Regensburg, 16: 142 (1862). TL — "Cuba". Type probably in Vienna.
= *corydon* (Butler) *GONIURUS*. Trans. Ent. Soc. London, [1870]: 492 (1870). TL — "Cuba". HT in BM.
= *larius* (Plötz) *GONIURUS*. Bull. Soc. Imp. Nat. Moscou, 55: 9 (1880). TL — "Cuba". Type probably lost [see **Note 6**].

5. **teleus** (Hübner) *GONIURUS*. Index exot. Lepid.: [3] [1821]. TL not stated. Type probably lost [see **Note 9**]. 28.
= ‡ *dorantes* Hübner, Samml. exot. Schmett., 1: pl. [154], figs. 2, 4 [1807], not Stoll, Aanhangs. Werk Uitl. Kappellen Pieter Cramer: 171 [1790]. Misidentification.
= *eurycles* (Latreille) *EUDAMUS*. Enc. Meth., 9: 730 [1824]. TL — "Brasil". HT in MNHN.
= *zalanthus* (Plötz) *GONIURUS*. Bull. Soc. Imp. Nat. Moscou, 55: 3 (1880). TL — "Allagra". Type stated to be in ZMHU [see **Note 6**].
= *latipennis* (Mabille and Vuillot) *GONIURUS*. Nov. Lepid., 5: 36 (1891). TL — Cayenne [French Guiana]. Type probably in MNHN.

6. **tanna** Evans. Cat. American Hesp. . .British Mus., (2): 94 (1952). TL — Santa Rita, Cauca Valley, Colombia. HT in BM. 29.

7. **simplicius** (Stoll) *PAPILIO*. Aanhangs. Werk Uitl. Kapellen Pieter Cramer: 171 [1790]. TL — "Surinam". Type probably lost [see **Note 15**]. 30.
= ‡ *dorantes* Hübner, Samml. exot. Schmett., 1: pl. [154], figs. 1, 3 [1807], not Stoll, Aanhangs. Werk Uitl. Kapellen Pieter Cramer: 149 [1790]. Misidentification.
= *pilatus* (Plötz) *GONIURUS*. Bull. Soc. Imp. Nat. Moscou, 55: 3 (1880). TL — Bahia, Brasil. Type stated to be in ZMHU [see **Note 6**].
= *gracilicauda* (Plötz) *GONIURUS*. Bull. Soc. Imp. Nat. Moscou, 55: 2 (1880). TL - "Central America". Type probably lost [see **Note 6**].
= *thiemei* (Ehrmann) *THYMELE*. Canadian Ent., 39: 321 (1907). TL — "Honduras". HT in CM.
= *borja* (Ehrmann) *THYMELE*. Canadian Ent., 39: 323 (1907). TL — Borja, Bolivia. HT in CM.

8. **procne** (Plötz) *GONIURUS*. Bull. Soc. Imp. Nat. Moscou, 55: 3 (1880). TL — Bahia, Brasil. Type probably lost [see **Note 6**]. 31.

9. **doryssus** (Swainson) *EUDAMUS*. Zool. Illustr., (2)2: pl. 48 (1821). TL — Bahia, Brasil. Type Lost [see **Note 16**]. 32.
= ‡ *orion* (Drury) *PAPILIO*. Ill. Exot. Ent., 3: 22 (1782). TL — "Sierra Leone, Africa" (in error). Type lost. Preoccupied by *Papilio orion* Cramer, Uitl. Kapellen, 2: 92 [1779].
= *brachius* (Geyer) *GONIURUS*. Zutr. z. Samml. exot. Schmett., 4: 8 (1832). TL — "Brasil". Type probably lost, but may be in Vienna [see **Note 11**].
= *leucites* (Mabille) *EUDAMUS*. Le Naturaliste, 9: 98 (1888). TL — "Colombia". Type probably in MNHN.
= *cleopatra* (Ehrmann) *GONIURUS*. Canadian Ent., 39: 322 (1907). TL — Suapure, Venezuela. HT in CM.
= *interruptus* (R. C. Williams) *EUDAMUS*. Trans. American Ent. Soc., 52: 65 (1926). TL — San Pedro Sula, Honduras. HT in CM.

10. **albimargo** (Mabille) *THYMELE.* Bull. Soc. Ent. France, [1875]: 213 (1875). TL — "Colombia", *fide* Evans, Cat. American Hesp. . .British Mus., (2): 99 (1952). HT in BM. 33.
= *dominicanus* (Plötz) *GONIURUS.* Mitth. Naturw. Ver. Neuvorpomm., 17: 2 (1886). TL not stated. Type probably lost [see **Note 6**].
= *triptolemus* (Ehrmann) *GONIURUS.* Canadian Ent., 39: 322 (1907). TL — "Costa Rica". HT in CM.

Genus XIII: Astraptes Hübner

Verz. bekannt. Schmett., (7): 103 [1819]. Type-species by designation of Scudder, Proc. American Acad. Arts Sci., 10: 122 (1875 *Papilio aulestes* Cramer, Uitl. Kapellen, 3: 161 [1780] preoccupied, by *Papilio aulestes* Cramer, Uitl. Kapellen, 2: 47 [1779] (=*Papilio narcosius* Stoll, Aanhangs. Werk Uitl. Kapellen Pieter Cramer: 171 [1790]).
= *Telegonus* Hübner, Verz. bekannt. Schmett., (7): 104 [1819]. Type-species by designation of Butler, Ent. Mo. Mag., 7: 56 (1870), *Papilio talus* Cramer, Uitl. Kapellen, 2: 122 [1777] [see **Note 17**].
= *Euthymele* Mabille, Ann. Soc. Ent. Belgique, 21: 24 (1878). Type-species by designation of Lindsey, Ann. Ent. Soc. America, 18: 86 (1925) *Hesperia mercatus* Fabricius, Ent. syst., 3: 332 (1793) (=*Papilio fulgerator* Walch, Der Naturforscher, 7: 115: 1775).

*1. **fulgerator** (Walch) *PAPILIO.* Der Naturforscher, 7: 115 (1775). TL not stated. Type probably lost.
= *mercatus* (Fabricius) *HESPERIA.* Ent. Syst., 3: 332 (1793). TL not stated. Type (*ex colln.* Jones) probably lost [see **Note 18**].
= *fulminator* (Sepp) *PAPILIO.* Surinamische Vlinders., 1: pl. 34 (1848). TL — "Surinam". Type probably lost.

a. **f. azul** (Reakirt) *GONILOBA.* Proc. Acad. Nat. Sci. Philadelphia, [1866]: 340 [1867]. TL — "nr. Vera Cruz, Mexico". Type probably lost. 34a.
= *misitra* (Plötz) *EUDAMUS.* Stettiner Ent. Ztg., 42: 502 (1881). TL — "Mexico". Type may be in Berlin, Munich or lost [see **Note 6**].
= *albifasciatis* (Röber) *THYMELE.* Ent. Mitteil., 14: 96 (1925). TL — Rio Songo, Bolivia. Types were in Dresden, at least before World War II.

2. **egregius** (Butler) *TELEGONUS.* Trans. Ent. Soc. London, [1870],: 494 (1870). TL not stated. HT in BM. 35.
= *brevicauda* (Plötz) *TELEGONUS.* Stettiner Ent. Ztg., 45: 88 (1884). TL — Chiriquí, Panama. Type probably lost [see **Note 6**].

*3. **alardus** (Stoll) *PAPILIO.* Aanhangs. Werk Uitl. Kapellen Pieter Cramer: pl. 39 [1790]. TL — "Surinam". Type probably lost [see **Note 15**].
= *grullus* (Mabille) *THYMELE.* Le Naturaliste, (2)10: 147 (1888). TL — Chiriquí [Panama]. HT in ZMHU [see **Note 19**].
= *fabrici* (Ehrmann) *TELEGONUS.* Lepid., 2: 29 (1918). TL — Caura Valley, Venezuela. HT in CM.

a. **a. latia** Evans. Cat. American Hesp. . .British Mus., (2): 111 (1952). TL — "Costa Rica". HT in BM. 36a.

4. **gilberti** H. A. Freeman. Suppl. Lepid. Soc., (2): 8 (1969). TL — 7 mi. S of Cd. Valles, San Luis Potosí, Mexico. HT in USNM [see **Note 20**]. 37.

*5. **galesus** (Mabille) TELEGONUS. Le Naturaliste, (2)10: 147 (1888). TL — Chanchamayo, Peru. HT probably in MNHN.
= *subflavus* (R. C. Williams) *TELEGONUS.* Trans. American Ent. Soc., 53: 281 (1927). TL — Riobamba, Ecuador. HT in CM.

a. **g. cassius** Evans. Cat. American Hesp. . .British Mus., (2): 118 (1952). TL — Irazú, Costa Rica, 6000-7000 ft. HT in BM [see 38a.

Note 21].

*6. **anaphus** (Cramer) *PAPILIO*. Uitl. Kapellen, 2: 126 [1777]. TL — "Surinam". Type probably lost [see **Note 7**].

= *leucogramma* (Sepp) *PAPILIO*. Surinamische Vlinder., 1: pl. 15 (1848). TL — "Surinam". Type lost.

= *anaphides* (Mabille and Boullet) *TELEGONUS*. Ann. Sci. Nat., Zool., (9)16: 75 (1912). TL — "Brasil". HT in MNHN.

a. **a. annetta** Evans. Cat. American Hesp. . .British Mus., (2): 118 (1952). TL — Tres Rios, Costa Rica. HT in BM. **39a.**

Genus XIV: **Autochton** Hübner

Zutr. z. Samml. exot. Schmett., 2: 13 [1823]. Type-species by monotypy *Autochton itylus* Hubner, Zutr. z. Samml. exot. Schmett., 2: 13 [1823].

= ‡*Cecrops* Hübner, Zutr. z. Samml. exot. Schmett., 1: 30 [1818]. Type-species by monotypy *Cecrops zarex* Hübner, Zutr. z. Samml. exot. Schmett., 1:30 [1818]. Preoccupied by *Cecrops* Leach, Enc. Brittanica, Suppl. To eds. 4 -6, 1: 405 (1816).

= *Cecropterus* Herrich-Schäffer, CorrespBl. zool.-min. Ver. Regensburg, 23: 131 (1869). Type-species as replacement name *Cecrops zarex* Hübner, Zutr. z. Samml. exot. Schmett., 1: 30 [1818].

= *Rhabdoides* Scudder, Butt. E. U. S. and Canada, 3 (12): 185 (1889). Type-species by monotypy *Eudamus cellus* Boisduval and Leconte, Hist. Lepid. Amerique Sept.: pl. 73 [1837].

1. **cellus** (Boisduval and Leconte) *EUDAMUS*. Hist. Lepid. Amerique Sept.: pl. 73 [1837]. TL — "North America". Type may be lost or in USNM [see **Note 22**]. **40.**

= *festus* (Geyer) *CECROPS*. Zutr. z. Samml. exot. Schmett., 5: 27 (1837). TL not stated. Type probably lost, but may be in Berlin, Munich or Vienna [see **Note 11**].

= ab. "aereofuscus" (Gunder) *RHABDOIDES*, Ent. News, 36: 196 (1925). TL — Baboquivari Mtns., Pima Co., Arizona. HT in AMNH.

= ab. "leilae" (A. H. Clark) *RHABDOIDES*, Science, 80: 164 (1934). TL — vic. Washington, D. C. HT in USNM.

2. **pseudocellus** (Coolidge and Clemence) *ACHALARUS*. Ent. News, 22: 3 (1911). TL — Ramsey Canyon, Huachuca Mtns., Cochise Co., Arizona. Type may be in CAS. **41.**

Genus XV: **Achalarus** Scudder

4th Ann. Rept. Peabody Acad. Sci., [1871]: 71 (1872). Type-species by original designation *Papilio lycidas* J. E. Smith, *in* Abbot and Smith, Nat. Hist. Rarer Lepid. Ins. Georgia, 1: 39 (1797), preoccupied by *Papilio lycidas* Cramer, Uitl. Kapellen, 2:25 [1777] (=*Proteides lyciades* Geyer, in Hübner, Zutr. z. Samml. exot. Schmett., 4: 10 [1832]).

= *Murgaria* Watson, Proc. Zool. Soc. London, [1893]: 19, 37 (1893). Type-species by original designation *Telegonus albociliatus* Mabille, Petites Nouvelles Ent., 2: 162 (1877).

1. **lyciades** (Geyer) *PROTEIDES*. in Hübner Zutr. z. Samml. exot. Schmett., 4: 10 [1832]. TL — "Bahia" (surely an error). Type probably lost [see **Note 11**]. **42.**

= ‡*lycidas* (J. E. Smith) *PAPILIO*. *in* Abbot and Smith, Nat. Hist.

Rarer Lepid. Ins. Georgia, 1: 39 (1797). TL — "Georgia". Type specimen probably never existed, but rather was Abbot's painting. Preoccupied by *Papilio lycidas* Cramer, Uitl. Kapellen, 2: 25 [1777].

= *hedysarum* Scudder. Butt. E. U. S. and Canada, 2: 1418 (1889). TL — "Georgia". Type may be in MCZ.

2. **casica** (Herrich-Schäffer) *EUDAMUS.* CorrespBl. zool.-min. Ver. Regensburg, 23: 187 (1869). TL not stated. Type may be in Vienna. 43.

= *epigena* (Butler) *EUDAMUS.* Trans. Ent. Soc. London, [1870]: 493 (1870). TL — "Mexico". HT in BM [see **Notes 23 and 24**].

3. **albociliatus** (Mabille) *TELEGONUS.* Petites Nouvelles Ent., 2: 162 (1877). TL — "Colombia, Panama, Guatemala". ST's may be in MNHN. 44.

4. **toxeus** (Plötz) *AETHILLA.* Berliner Ent. Ztg., 26: 258 (1882). TL — "Mexico". Type may be in ZMHU [see **Note 6**]. 45.

= *coyote* (Skinner) *EUDAMUS.* Canadian Ent., 24: 164 (1892). TL — nr. Corpus Christi, Texas. HT in CM.

5. **jalapus** (Plötz) *EUDAMUS.* Stettiner Ent. Ztg., 43: 100 (1882). TL — Jalapa, Veracruz, Mexico. Type stated to be in ZMHU [see **Note 6**]. 46.

Genus XVI: **Thorybes** Scudder

4th Ann Rept. Peabody Acad. Sci., [1871]: 71 (1872). Type-species by original designation *Papilio bathyllus* J. E. Smith, *in* Abbot and Smith, Nat. Hist. Rarer Lepid. Ins. Georgia, 1: 43 (1797) (=?*Papilio daunus* Cramer, Uitl. Kapellen, 2: 44 [1777]).

= ‡*Lintneria* Butler, *in* W. H. Edwards, Trans. American Ent. Soc., 6: 67 (1877). Type-species by original designation *Papilio daunus* Cramer, Uitl. Kapellen, 2: 44 [1777] (misidentified type-species?). Preoccupied by *Lintneria* Butler, Trans. Zool. Soc. London, 9: 620 (1876).

= *Cocceius* Godman and Salvin, Biol. Cent.-Americana, Lepid. Rhop., 2: 336 [1894]. Type-species by original designation *Eudamus pylades* Scudder, Proc. Boston Soc. Nat. Hist., 13: 207 (1870).

1. **bathyllus** (J. E. Smith) *PAPILIO. in* Abbot and Smith, Nat. Hist. Rarer Lepid. Ins. Georgia, 1: 43 (1797). TL — "Georgia". Type-specimen probably never existed, only the Abbot plate. 47.

= ?*daunus* (Cramer) *PAPILIO.* Uitl. Kapellen, 2: 44 [1777]. TL — "Surinam" (this species?). Type probably lost [see **Notes 7 and 25**].

= ?*syloson* (Mabille) *COCCEIUS.* Gen. Ins., 17(A): 39 (1903). TL — "Cayenne" (this species?). Loc. of type not known (MNHN?) [see **Note 26**].

2. **pylades** (Scudder) *EUDAMUS.* Proc. Boston Soc. Nat. Hist., 13: 207 (1870). TL not stated, probably Massachusetts. Type should be in MCZ [see **Note 27**]. 48.

fm. "albosuffusa" H. A. Freeman. Ent. News, 54: 72 (1943). TL — Fort Davis, Jeff Davis Co., Texas. HT in AMNH.

= ab. "immaculata" (Skinner) *EUDAMUS.* Trans. American Ent. Soc., 37: 177 (1911). TL — Philadelphia. Pennsylvania. HT in CM.

= ab. "Integra" Lanktree. Ent. Rec. and J. Var., 80: 213 (1968). TL not stated. Loc. of type not known.

3. **diversus** Bell. Bull. Brooklyn Ent. soc., 22: 217 (1927). TL — Plumas Co., California. HT in AMNH. 49.

4. **mexicana** (Herrich-Schäffer) *EUDAMUS.* CorrespBl. zool.-min. Ver. Regensburg, 23: 188 (1869). TL — presumably Mexico. Type may be in Vienna.

a. **m. mexicana** (Herrich-Schäffer) *EUDAMUS.* CorrespBl. zool.-min. Ver. Regensburg, 23: 188 (1869). TL — presumably Mexico. Type may be 50a.

in Vienna.
= *ananius* (Plötz) *EUDAMUS.* Stettiner Ent. Ztg., 43: 99 (1882). TL — "Mexico". Type may be in Munich [see **Note 6**].

b. **m. nevada** Scudder. 4th Ann. Rept. Peabody Acad. Sci., [1871]: 70 (1872). TL — "Sierra Nevada range, California". ST's should be in MCZ. **50b.**
= *aemilea* (Skinner) *EUDAMUS.* Ent. News, 4: 64 (1893). TL — Fort Klamath, Oregon. HT should be in CM [see **Note 28**].

c. **m. dobra** Evans. Cat. American Hesp. . .British Mus., 2: 131 (1952). TL — Fort Grant, Apache Co., Arizona. HT in BM. **50c.**

5. **confusis** Bell. Trans. American Ent. Soc., 48: 205 (1922). TL — Tampa, Hillsborough Co., Florida. HT in AMNH [see **Note 29**]. **51.**

6. **drusius** (W. H. Edwards) *EUDAMUS.* Canadian Ent., 15: 211 (1883). TL — "So. Arizona". LT in CM, designated by F. M. Brown and L. Miller, Trans. American Ent. Soc., 101: 603-605 (1975). **52.**
= *paucipuncta* Dyar. Proc. U. S. Natl. Mus., 51: 4 (1917). TL — "Mexico". HT in USNM [see **Note 30**].

7. **valeriana** (Plötz) *COGIA.* Stettiner Ent. Ztg., 43: 99 (1882). TL — "Mexico". Type may be in Munich [see **Notes 6** and **31**]. **53.**
= ?*mysie* Dyar. J. New York Ent. Soc., 12: 40 (1904). TL — Patagonia Mtns., Arizona. HT in USNM [see **Note 32**].

Genus XVII: **Cabares** Godman and Salvin

Biol. Cent.Americana, Lepid. Rhop., 2: 337 (1894). Type-species by original designation *Thanaos potrillo* Lucas, *in* Sagra, Hist. Cuba, 7: 641 (1857).

1. **potrillo** (Lucas) *THANAOS. in* Sagra, Hist. Cuba, 7: 641 (1857). TL — "Cuba". Type probably in MNHN. **54.**
= *paterculus* (Herrich-Schäffer) *THANAOS.* CorrespBl. zool.-min. Ver. Regensburg, 17: 141 (1863). TL — "Cuba". HT in ANSP.

Genus XVIII: **Celaenorrhinus** Hübner

Verz. bekannt. Schmett., (7): 106 [1819]. Type-species by designation of Scudder, Proc. American Acad. Arts Sci., 10: 137 (1875) *Papilio eligius* Stoll, *in* Cramer, Uitl. Kapellen, 4: 123 [1781] [see **Note 33**].
= *Ancistrocampa* C. and R. Felder, Wiener Ent. Monats., 6: 183 (1862). Type-species by monotypy *Ancistrocampa syllius* C. and R. Felder, Wiener Ent. Monats., 6: 184 (1862).
= *Hantana* Moore, Lepid. Ceylon, 1: 179 [1881]. Type-species by original designation *Eudamus infernus* R. Felder, Verh. zool.-bot. Ges. Wien, 18: 283 (1868) (=*Eudamus spilothyrus* R. Felder, Verh. zool.-bot. Ges. Wien, 18: 283, 1868).
= *Gehlota* Doherty, J. Asiatic Soc. Bengal, (2) 58: 131 (1889). Type-species by designation of Watson, Proc. Zool. Soc. London, [1893]: 49 (1893) *Plesioneura sumitra* Moore, Proc. Zool. Soc. London, [1865]: 787 (1866).
= *Narga* Mabille, Bull. C. R. Soc. Ent. Belgique, 35: 70 (1891). Type-species by designation of E. Watson, Proc. Zool. Soc. London, [1893]: 130 (1893) *Narga chiriquensis* Mabille, Ann. Soc. Ent. Belgique, 35 Bull.: 70 (1891) (=*Tagiades monartus* Plötz, Jahrb. Nass. Ver. Naturk., 37: 49, 1884).

= *Apallaga* Strand, Ent. Rundschau, 28: 143 (1911). Type-species by monotypy *Apallaga separata* Strand, Ent. Rundschau, 28: 144 (1911) (=*Pterygospidea mokeezi* Wallengren, K. Svenska Vetensk. Akad. Stockholm, 2: 54, 1857).

1. **fritzgaertneri** (Bailey) *PLEUSIONEURA* [sic.]. Bull. Brooklyn Ent. Soc., 3: 62-63 (1880). TL — 80 ft. within Loma Larga silver mine, El Salvador. Loc. of type not known (USNM?). 55.
   = *variegatus* Godman and Salvin. Biol. Cent.-Americana, Lepid. Rhop., 2: 383 [1894]. TL — various localities in Mexico, Guatemala cited in series. ST's in BM.
2. **stallingsi** H. A. Freeman. Ent. News, 57: 185-186 (1946). TL — Monterrey [Nuevo Leon], Mexico. HT in Stallings and Turner collection (now in YPM?). 56.

Genus XIX: **Dyscophellus** Godman and Salvin

Biol. Cent.-Americana, Lepid. Rhop., 2: 319 (1893). Type-species as replacement name *Papilio sebaldus* Stoll., *in* Cramer, Uitl. Kapellen, 4: 101 [1781] [see **Note 34**].
= ‡*Dyscophus* Burmeister, Descr. Phys. Rep. Argentine, 5 Lepid. 1: 291 (1878). Type-species by original designation *Papilio sebaldus* Stoll, *in* Cramer, Uitl. Kapellen, 4: 101 [1781]. Preoccupied by *Dyscophus* Grandidier, Ann. Sci. Nat., Zool., (3)15:(20) 10 (1872).

1. **euribates** (Stoll) *PAPILIO. in* Cramer, Uitl. Kapellen, 4: 215 [1782]. TL — "Surinam". Type probably lost [see **Note 15**]. 57.
   = *nicias* (Fabricius) *PAPILIO.* Mant. Ins., 2: 86 (1787). TL — "Cayenne" [French Guiana. one specimen in Kiel (HT?, LT?).
   = *hesus* (Westwood) *GONILOBA.* Gen. diurn. Lepid., 2: 573 [1852]. TL not stated, but restricted to Para, Brasil, by Evans, Cat. American Hesp. . .British Mus., (2): 147 (1952). HT in BM.
   = *etias* (Hewitson) *EUDAMUS.* Descr. one-hundred new spp. Hesp., (1): 13 (1867). TL — "Upper Amazon". HT in BM.
   = *gaurus* (Plötz) *TELEGONUS.* Berliner Ent. Zeits., [1882]: (1882). TL — Rio Negro [Brasil?]. Type probably lost [see **Note 6**].
   = *tychios* (Plötz) *TELEGONUS.* Berliner Ent. Zeits., [1882]: (1882). TL — Bahia [Brasil]. Type probably lost [see **Note 6**].

Genus XX: **Spathilepia** Butler

Ent. Mo. Mag., 7: 57 (1870). Type-species by original designation *Papilio clonius* Cramer, Uitl. Kapellen, 1: 126 [1776].

1. **clonius** (Cramer) *PAPILIO.* Uitl. Kapellen, 1: 126 [1776]. TL — "Brasil". Type probably lost [see **Note 7**]. 58.

Genus XXI: **Cogia** Butler

Trans. Ent. Soc. London, [1870]: 508 (1870). Type-species by monotypy *Cogia hassan* Butler, Trans. Ent. Soc. London, [1870]: 509 (1870).
= ‡*Phoedinus* Godman and Salvin, Biol. Cent.-Americana, Lepid. Rhop.,

2: 335 (1894). Type-species by designation of Lindsey, Univ. Iowa Stud. Nat. Hist., 9(4): 35 (1921) *Eudamus caicus* Herrich-Schäffer, CorrespBl zool.-min. Ver. Regensburg, 23: 188 (1869). Preoccupied by *Phoedinus* Guérin-Ménéville, Rev. Zool. (Soc. Cuvier), [1838]: 286 (1838) [see **Notes 35** and **36**].

= ‡*Anaperus* Mabille and Boullet, Ann. Sci. Nat. Zool., (10)2(4/6): 232 (1919). Type-species, as replacement name, *Eudamus caicus* Herrich-Schäffer, CorrespBl. zool.-min. Ver. Regensburg, 23: 188 (1869). Preoccupied by *Anaperus* Troschel, Inhaltsverz. S. B. Ges. Nat. Fr. Berlin, [1860]: 16 (1860).

= *Caicella* Hemming, Stylops, 3: 144 (1934). Type-species, as replacement name, *Eudamus caicus* Herrich-Schäffer, CorrespBl. zool.-min. Ver. Regensburg, 23: 188 (1869).

1. **calchas** (Herrich-Schäffer) *EUDAMUS*. CorrespBl. zool.-min. Ver. Regensburg, 23: 188 (1869). TL not stated. Type may be in Vienna. **59.**

= *terranea* (Butler) *SPATHILEPIA*. Lepid. Exot.: 111 (1872). TL — Cartago, Costa Rica. HT in BM.

= *anacreon* (Plötz) *EUDAMUS*. Stettiner Ent. Ztg., 43: 99 (1882). TL not stated. Type may be in Munich or lost [see **Note 6**].

2. **hippalus** (W. H. Edwards) *EUDAMUS*. Papilio, 2: 27 (1882). TL — Tucson, Pima Co., Arizona, restricted by F. M. Brown and L. Miller, Trans. American Ent. Soc., 101: 609 (1975). LT in USNM, designated by F. M. Brown and L. Miller, Trans. American Ent. Soc., 101: 609-610 (1975). **60.**

= *gila* (Plötz) *HESPERIA*. Stettiner Ent. Ztg., 47: 91-92 (1886). TL — "Arizona". Type probably lost [see **Note 6**].

3. **outis** (Skinner) *EUDAMUS*. Ent. News, 5: 332 (1894). TL — Round Mt., Blanco Co., Texas. HT in CM. **61.**

4. **caicus** (Herrich-Schäffer) *EUDAMUS*. CorrespBl. zool.-min. Ver. Regensburg, 23: 188 (1869). TL not stated. Type may be in Vienna.

a. **c. caicus** (Herrich-Schäffer) *EUDAMUS*. CorrespBl. zool.-min. Ver. Regensburg, 23: 188 (1869). TL not stated. Type may be in Vienna. **62a.**

= *schaefferi* (Plötz) *EUDAMUS*. Stettiner Ent. Ztg., 43: 99 (1882). TL not stated. Type may be in Munich [see **Note 6**].

b. **c. moschus** (W. H. Edwards) *EUDAMUS*. Papilio, 2: 141 (1882). TL — vic. Fort Grant, foot of Mt. Graham, Graham Co., Arizona, restricted by F. M. Brown and L. Miller, Trans. American Ent. Soc., 101: 606-607 (1975). LT in CM, designated by F. M. Brown and L. Miller, Trans. American Ent. Soc., 101: 607 (1975). **62b.**

Genus XXII: **Nisoniades** Hübner

Verz. bekannt. Schmett., (7): 108 [1819]. Type-species by designation of Scudder, Proc. American Acad. Arts Sci., 10: 228 (1875), *Papilio bromius* Stoll, Aanhangs. Werk Uitl. Kapellen Pieter Cramer: 37 [1787] (=*Papilio mimas* Cramer, Uitl. Kapellen, 1: 83 [1775]).

1. **rubescens** (Möschler) *PELLICIA*. Verh. zool.-bot. Ges. Wien, 26: 340 (1876). TL — "Surinam", restricted by Evans, Cat. American Hesp. . .. British Mus., (3): 49 (1953). ST's should be in Vienna. **63.**

= *bromias* (Godman and Salvin) *PELLICIA*. Biol. Cent.-Americana, Lepid. Rhop., 2: 370 (1894). TL — "Mexico", reestricted by Evans, Cat. American Hesp. . .British Mus., (3): 49 (1953). ST's in BM.

= *triangulus* (Mabille) *ACHLYODES*. Ann. Soc. Ent. France, 66: 198 (1897). TL — "Bolivia". Type should be in MNHN.

= *clara* (Mabille and Boullet) *PELLICIA bromias* var. Bull. Soc. Ent. France, [1916]: 323 (1916). TL — "French Guiana", restricted by Evans, Cat. American Hesp. . .British Mus., (3): 49 (1953). ST's should be in MNHN.

= *nigra* (Mabille and Boullet) *PELLICIA* Bull. Soc. Ent. France, [1916]: 323 (1916). TL — "Brasil", restricted by Evans, Cat. American Hesp. . .British Mus., (3): 49 (1953). ST's should be in MNHN.

Genus XXIII: **Pellicia** Herrich-Schäffer

CorrespBl. zool.-min. Ver. Regensburg, 24: 159 (1870). Type-species by designation of Scudder, Proc. American Acad. Arts Sci., 10: 243 (1875), *Pellicia dimidiata* Herrich-Schäffer, CorrespBl. zool.-min. Ver. Regensburg, 24: 160 (1870).

= *Hemipteris* Mabille, Le Naturaliste, (2)3: 216 (1889). Type-species by monotypy *Hemipteris fumida* Mabille, Le Naturaliste, (2)3: 216 (1889) (=*Pellicia tyana* Plötz, Stettiner Ent. Ztg., 43: 255; 1882).

1. **angra** Evans. Cat. American Hesp. . .British Mus., (3): 59 (1953). TL — Atoyac, Veracruz, Mexico. HT in BM. 64.
2. **arina** Evans. Cat. American Hesp. . .British Mus., (3): 58 (1953). TL — Atoyac, Veracruz, Mexico. HT in BM [see **Note 37**]. 65.

Genus XXIV: **Bolla** Mabille

in P. Wytsman, Gen. Ins., 17A: 46, 72 (1903). Type-species by designation of Lindsey, Univ. Iowa Stud. Nat. Hist., 9(4): 43 (1921), *Bolla pullata* Mabille, *in* P. Wytsman, Gen. Ins., 17A: 72 (1903) [see **Note 38**].

1. **clytius** (Godman and Salvin) *PHOLISORA*. Biol. Cent.-Americana, Lepid. Rhop., 2: 434 (1897). TL — Tres Marias I., Mexico. HT in BM. 66.
2. **brennus** (Godman and Salvin) *STAPHYLUS*. Biol. Cent.-Americana, Lepid. Rhop., 2: 434 (1896). TL — Volcan de Chiriquí, Panama. HT in BM. 67.

Genus XXV: **Staphylus** Godman and Salvin

Biol. Cent.-Americana, Lepid. Rhop., 2: 429 (1896). Type-species by original designation *Helias ascalaphus* Staudinger, Verh. zool.-bot. Ges. Wien, 25: 116 (1876).

= *Scantilla* Godman and Salvin, Biol. Cent.-Americana, Lepid. Rhop., 2: 437 (1896). Type-species by monotypy *Scantilla opites* Godman and Salvin, Biol. Cent.-Americana, Lepid. Rhop., 2: 437 (1896) (=*Tagiades vincula* Plötz, Stettiner Ent. Ztg., 47; 113, 1886).

1. **ceos** (W. H. Edwards) *PHOLISORA*. Papilio, 2: 140 (1870). TL — Fort Grant, in canyon at foot of Mt. Graham, Graham Co., Arizona, restricted by F. M. Brown and L. Miller, Trans. American Ent. Soc., 101 612 (1975). LT in CM, designated by F. M. Brown and L. Miller, Trans. American Ent. Soc., 101: 613 (1975). 68.
2. **mazans** (Reakirt) *CARCHARODUS*. Proc. Acad. Nat. Sci. Philadelphia, 18: 335 (1866). TL — nr. Vera Cruz, Mexico. Type may be lost [see **Notes 39 and 40**]. 69.
3. **hayhurstii** (W. H. Edwards) *HESPERIA*. Trans. American Ent. Soc., 3: 70.

22 (1870). TL — vic. Sedalia, Missouri, restricted by F. M. Brown and L. Miller, Trans. American Ent. Soc., 101: 610-611 (1975). LT in CM, designated by F. M. Brown and L. Miller, Trans. American Ent. Soc., 101: 611 (1975).

Genus XXVI: **Gorgythion** Godman and Salvin

Biol. Cent.-Americana, Lepid. Rhop., 2: 424 (1896). Type-species by designation of Lindsey, Ann. Ent. Soc. America, 18: 88 (1925), *Helias pyralina* Möschler, Verh. zool.-bot. Ges. Wien, 26: 343 (1876) (=*Hesperia begga* Prittwitz, Stettiner Ent. Ztg., 29: 198; 1868, subspecies).

*1. **begga** (Prittwitz) *HESPERIA*. Stettiner Ent. Ztg., 29: 198 (1868). TL not stated. Loc. of type not known [see **Note 41**].

= *tucumana* (Burmeister) *HELIAS*. Descr. Phys. Rep. Argentine, 5, Lepid. 1: 261 (1878). TL — Tucuman, Argentina. Types should be in Buenos Aires.

a. **b. pyralina** (Möschler) *HELIAS*. Verh. zool.-bot. Ges. Wien, 26: 343 (1876). TL — Paramaraibo and interior Surinam. Types probably in Vienna. **71a.**

= *marginata* Schaus. Proc. U. S. Natl. Mus., 24: 431 (1902). TL — "Peru". ST's in USNM.

Genus XXVII: **Sostrata** Godman and Salvin

Biol. Cent.-Americana, Lepid. Rhop., 2: 397 (1895). Type-species by designation of Lindsey, Ann. Ent. Soc. America, 18: 101 (1925), *Leucochitonea scintillans* Mabille, Ann. Soc. Ent. France, (5)6, Bull.: 200 (1876) (=*Hesperia bifasciata* Ménétriés, Nouv. Mem. Soc. Imp. Nat. Moscou, 1: 193, 1829, subspecies).

*1 **bifasciata** (Ménétriés) *HESPERIA*. Nouv. Mem. Soc. Imp. Nat. Moscou, 1: 193 (1829). TL — "Brasil". Loc. of type not known.

a. **b. nordica** Evans. Cat. American Hesp. . .British Mus., (3): 126 (1953). TL — "Mexico". HT in BM. **72a.**

Genus XXVIII: **Carrhenes** Godman and Salvin

Biol. Cent.-Americana, Lepid. Rhop., 2: 388 (1895). Type-species by designation of Lindsey, Ann. Ent. Soc. America, 18: 81 (1925), *Leucochitonea fuscescens* Mabille, Ann. Soc. Ent. Belgique, 36 Bull.: 62 (1891).

1. **canescens** (R. Felder) *LEUCOCHITONEA*. Verh. zool.-bot. Ges. Wien, 19: 476 (1869). TL — "Mexico". Type may be in Vienna. **73.**

Genus XXIX: **Xenophanes** Godman and Salvin

Biol. Cent.-Americana, Lepid. Rhop., 2: 387 (1895). Type-species by original designation *Papilio tryxus* Stoll, *in* Cramer, Uitl. Kapellen, 4: 87 [1780].

1. **tryxus** (Stoll) *PAPILIO. in* Cramer, Uitl. Kapellen, 4: 87 [1780]. TL not **74.**

stated, probably Surinam. Type probably lost [see **Notes 15** and **42**].
= *salvianus* Fabricius) *HESPERIA*. Ent. Syst., 3: 348 (1793). TL — "in Indiis", probably coastal Guiana. Type probably lost.
= *ruatanensis* Godman and Salvin. Biol. Cent.-Americana, Lepid. Rhop., 2: 388 (1895). TL — Ruatan Isl., Honduras. HT in BM [see **Note 43**].
= *euphemie* (Ehrmann) *LEUCOCHITONEA*. Canadian Ent., 39: 318 (1907) TL — Suapure, Venezuela. HT in CM.
= *perplexus* Bell. An. Esc. Nac. cienc. biol. Méxicana, 2: 456 (1942). TL — Guerrero, Mexico. HT in AMNH.

Genus XXX: **Systasea** W. H. Edwards

Canadian Ent., 9: 120 (1877). Type-species, as replacement name, *Hesperia zampa* W. H. Edwards, Trans. American Ent. Soc., 5: 207 (1876).
= ‡*Lintneria* W. H. Edwards, Trans. American Ent. Soc., 6: 57 (1877). Type-species by monotypy *Hesperia zampa* W. H. Edwards, Trans. American Ent. soc., 5: 207 (1876). Preoccupied by *Lintneria* Butler, Trans. Zool. Soc. London, [1876]: 207 (1876).
= ‡*Plesiocera* Mabille, Ann. Soc. Ent. Belgique, 35 Bull.: 106 (1891). Type-species by monotypy *Plesiocera filipalpis* Mabille, Ann. Soc. Ent. Belgique, 35 Bull.: 106 (1891) [see **Note 44**]. Preoccupied by *Plesiocera* Macquart, Mem. Soc. R. Sci. Lille, [1840]: 360 (1841).

1. **pulverulenta** (R. Felder) *LEUCOCHITONEA*. Verh. zool.-bot. Ges. Wien, 19: 478 (1869). TL — Orizaba, Mexico. Type may be in Vienna [see **Note 45**]. **75.**
= *taeniatus* (Plötz) *TAGIADES*. Jahrb. nass. Verh., 37: 41 (1884). TL — Oaxaca, Mexico. Type may be in Munich [see **Note 6**].
= *filipalpis* (Mabille) *PLESIOCERA*. Ann. Soc. Ent. Belgique. 35 Bull.: 106 (1891). TL not stated. HT in BM [see **Note 44**].

2. **zampa** (W. H. Edwards) *HESPERIA*. Trans. American Ent. Soc., 5: 207 (1876). TL — "South Apache, Arizona". NT in CM, designated by L. Miller, Ann. Carnegie Mus., 41: 183-184 (1970 "1969") [see **Note 45**]. **76.**
= *evansi* (Bell) *ANTIGONUS*. Ent. News, 52: 165-167 (1941). TL — Baboquivari Mtns., Arizona. HT in AMNH.

Genus XXXI **Achlyodes** Hübner

Verz. bekannt. Schmett., (7): 108 [1819]. Type-species by designation of Butler, Ent. Mo. Mag., 7: 98 (1870). *Papilio busiris* Cramer, Uitl. Kapellen, 3: 119 [1779] [see **Note 46**].
= *Eantis* Boisduval, Hist. Nat. Ins., Consid. Gen., 1 (Lepid.): pl. 13 (=pl. 9B), fig. 6 [1836]. Type-species by monotypy *Urbanus thraso* Hübner, Samml. exot. Schmett., 1: pl. [151] [1807].
= *Sebaldia* Mabille, *in* P. Wytsman, Gen. Ins., 17A: 77 (1903). Type-species by monotypy *Papilio busiris* Cramer, Uitl. Kapellen, 3: 119 [1779].

*1. **thraso** (Hübner) *URBANUS*. Samml. exot. Schmett., 1: pl. [151] [1807]. TL not stated. Type probably lot [see **Note 9**].
= *peruvianus* (Mabille and Boullet) *EANTIS*. Bull. Soc. Ent. France, [1917]: 58 (1917). TL not stated, but probably "Peru". Type should be in MNHN.

a. t. **tamenund** (W. H. Edwards) *HESPERIA*. Trans. American Ent. Soc., 3: (1871). TL — vic. Norse, Bosque Co., Texas, restricted by F. M. Brown and L. Miller, Trans. American Ent. Soc., 101: 615-617 (1975). LT in CM, designated by F. M. Brown and L. Miller, Trans. American Ent. Soc., **77a.**

101: 617 (1975).

Genus XXXII: **Grais** Godman and Salvin

Biol. Cent.-Americana, Lepid. Rhop., 2: 381 (1894). Type-species by original designation *Anastrus stigmaticus* Mabille, Ann. Soc. Ent. Belgique, 27 Bull.: 54 (1883).

1. **stigmaticus** (Mabille) *ANASTRUS.* Ann. Soc. Ent. Belgique, 27 Bull.: 54 (1883). TL — "Brasil". Type may be in MNHN. 78.
   = *fumosus* (Plötz) *ANTIGONUS.* Jahrb. nass. Verh., 37: 26 (1884). TL — "Brasil". Type may be in Munich or lost [see **Note 6**].

Genus XXXIII: **Timochares** Godman and Salvin

Biol. Cent.-Americana, Lepid. Rhop., 2: 417 (1896). Type-species by designation of Lindsey, Univ. Iowa Stud. Nat. Hist., 9(4): 55 (1921), *Leucochitonea trifasciata* Hewitson, Descr. one-hundred new spp. Hesp., (2): 50 [1868].

1. **ruptifasciatus** (Plötz) *ANTIGONUS.* Jahrb. nass. Verh., 37: 27 (1884). TL — "South America". Type may be in Munich or lost [see **Note 6**]. 79.

Genus XXXIV: **Chiomara** Godman and Salvin

Biol. Cent.-Americana, Lepid. Rhop., 2: 453 (1899). type-species by original designation *Achlyodes mithrax* Möschler, Verh. zool.-bot. Ges. Wien, 48: 225 (1878).

*1. **asychis** (Stoll) *PAPILIO. in* Cramer, Uitl. Kapellen, 4: 87 [1780]. TL not stated, probably Surinam. Type probably lost [see **Note 15**].
   = *dilucida* (Plötz) *EPHYRIADES.* Jahrb. nass. Verp., 37: 4 (1884). TL — "Surinam". Type probably lost [see **Note 6**].
   a. **a. georgina** (Reakirt) *PYRGUS.* Proc. Acad. Nat. Sci. Philadelphia, 20: 88 (1868). TL — nr. Vera Cruz, Mexico. Type probably lost [see **Notes 40** and **47**]. 80a.

Genus XXXV: **Gesta** Evans

Cat. American Hesp. . .British Mus., (3): 171, 200 (1953). Type-species by original designation *Thanaos gesta* Herrich-Schäffer, CorrespBl. zool.-min. Ver. Regensburg, 17: 142 (1863).

*1. **gesta** (Herrich-Schäffer) *THANAOS.* CorrespBl. zool.-min. Ver. Regensburg, 17: 142 (1863). TL — "Cuba". HT in ANSP.
   = *bigutta* (Prittwitz) *HESPERIA.* Stettiner Ent. Ztg., 29: 198 (1868). TL not stated. Type may be in ZMHU.
   = *brusus* (Burmeister) *HELIAS.* Descr. phys. Rep. Argentine, 5 Lepid. 1: 257 (1879). TL — Buenos Aires, Argentina. Type may be in Buenos Aires.
   = *blanda* (Plötz) *ACHLYODES.* Jahrb. nass. Verh., 37: 19 (1884). TL not stated. Type may be in Munich or lost [see **Note 6**].
   a. **g. invisus** (Butler and H. Druce) *THANAOS.* Cist. Ent., 1: 114 (1872). TL — "Costa Rica". HT in BM. 81a.

= *gorgona* (Plötz) *ACHLYODES*. Jahrb. nass. Verp., 37: 25 (1884). TL — "Guatemala". Type may be in Munich or Lost [see **Note 6**].

= *llano* (Dodge) *NISONIADES*. Canadian Ent., 35: 78 (1903). TL — Llano Co., Texas. HT at least was in CAS.

Genus XXXVI: **Ephyriades** Hübner

Verz. bekannt. Schmett., (7): 111 [1819]. Type-species by designation of Scudder, Proc. American Acad. Arts Sci., 10: 164 (1875). *Papilio otreus* Stoll, *in* Cramer, Uitl. Kapellen, 4: 78 [1780] (=*Papilio arcas* Drury, Ill. Nat. Hist., 1: index and 38 [1773]; subspecies) [see **Note 48**].

= *Oileides* Hübner, Samml. exot. Schmett., 2: pl. [151], [152] [1825]. Type-species by designation of Scudder, Proc. American Acad. Arts Sci., 10: 232 (1875), *Oileides zephodes* Hübner, Samml. exot. Schmett., 2: pl. [151] [1825].

= *Melanthes* Mabille, *in* P. Wytsman, Gen. Ins., 17A: 47 (1903). Type-species by designation of Lindsey, Univ. Iowa Stud. Nat. Hist., 9(4): 48 (1921), *Nisoniades brunnea* Herrich-Schäffer, CorrespBl. zool.-min. Ver. Regensburg, 18: 172 (1864).

= *Brachycoryne* Mabille, *in* P. Wytsman, Gen. Ins., 17B: 81 (1904). Type-species by monotypy *Papilio flyas* Stoll, *in* Cramer, Uitl. Kapellen, 4: 78 [1780] (=*Papilio arcas* Drury, Ill. Nat. Hist., 1: index and 38 [1773]).

*1. **brunnea** (Herrich-Schäffer) *NISONIADES*. CorrespBl. zool.-min. Ver. Regensburg, 18: 172 (1864). TL — "Cuba". HT in ANSP.

= *electra* (Lintner) *EUDAMUS*. Canadian Ent., 13: 63 (1881). TL — "Hamilton, Ontario" [error!]. HT may be in New York State Museum, Albany.

a. **b. floridensis** Bell and W. P. Comstock. American Mus. Novitates, (1379): 17-18 (1948). TL — Key Largo, Monroe Co., Florida. HT in AMNH. 82a.

Genus XXXVII: **Erynnis** Schrank

Fauna Boica, 2: 152, 157 (1801). Type-species by designation of Scudder, 4th Ann. Rept. Peabody Acad. Sci., [1871]: 71 (1872), *Papilio tages* Linnaeus, Syst. Nat., ed. 10, 1: 485 (1758).

= *Thymele* Fabricius, Mag. F. Insektenk. (Illiger), 6: 287 (1807). Type-species by designation of Westwood, Intro. Class. Ins., 2, Syn.: 88 (1840), *Papilio tages* Linnaeus, Syst. Nat., ed. 10, 1: 485 (1758) [see **Note 49**].

= *Astycus* Hübner, Syst.-alph. Verz.: 1, 3, 5, 6, 8-10 (1822). Type-species by designation of Hemming, Entomologist, 66: 200 (1933), *Papilio tages* Linnaeus, Syst. Nat., ed. 10, 1: 485 (1758).

= *Thanaos* Boisduval, Icones Hist. Lepid. Europ., (19/20): 240 [1834]. Type-species by designation of Blanchard, Hist. Nat. Ins., 3: 469 (1840), *Papilio tages* Linnaeus, Syst. Nat., ed. 10, 1: 485 (1758) [see **Notes 50** and **51**].

= *Hallia* Tutt, Nat. Hist. British Butts., 1: 261 [1906]. Type-species by original designation *Thanaos marloyi* Boisduval, Icon. Hist. Lepid. Europ., 1: 241 [1834].

= *Erynnides* Burns, Univ. California Publ. Ent., 37: 24 (1964). Type-species by original designation *Nisoniades propertius* Scudder and Burgess, Proc. Boston Soc. Nat. Hist., 13: 298 (1870).

1. **icelus** (Scudder and Burgess) *NISONIADES*. Proc. Boston Soc. Nat. Hist., 13: 288 (1870). TL — "New England". Type probably in MCZ. **83.**
   = *bautista* (Plötz) *NISONIADES*. Jahrb. nass. Verp., 37: 36 (1884). TL — "California". Type may be in Munich or lost [see **Note 6**].
   = *hamamaelidis* (Scudder) *NISONIADES*. Butt. E. U. S. and Canada, 2: 1507 (1889). TL not stated. Type, if it existed, should be in MCZ [See **Note 27**].
2. **brizo** (Boisduval and Leconte) *THANAOS*. Lépid. Amerique sept.: pl. 66 [1834]. TL not stated. Type may be in USNM or MNHN [see **Note 22**].
   a. **b. brizo** (Boisduval and Leconte) *THANAOS*. Lépid. Amerique sept.: pl. 66 [1834]. TL not stated. Type may be in USNM or MNHN [see **Note 22**]. **84a.**
   b. **b. somnus** (Lintner) *NISONIADES*. Papilio, 1: 73 (1881). TL — "Florida". Loc. of type not known (New York State Mus., Albany?). **84b.**
   c. **b. burgessi** (Skinner) *THANAOS*. Trans. American Ent. Soc., 40: 203 (1914). TL — "Arizona". HT in CM. **84c.**
   d. **b. lacustra** (W. G. Wright) *NISONIADES*. Butt. W. Coast: 253 (1905). TL — Blue Lakes, Lake Co., California. LT in CAS, designated by Burns, Univ. California Publ. Ent., 37: 58-59 (1964) [see **Note 52**]. **84d.**
3. **juvenalis** (Fabricius) [*HESPERIA*]. Ent. Syst., 3: 339 (1793). TL — "America", probably Georgia. Type lost.
   a. **j. juvenalis** (Fabricius) [*HESPERIA*]. Ent. Syst., 3: 339 (1793). TL — "America", probably Georgia. Type lost. **85a.**
      = *costalis* (Westwood) *NISONIADES*. Gen. Diurn. Lepid., 2: 519 [1852]. TL not stated. HT in BM.
      = *ennius* (Scudder and Burgess) *NISONIADES*. Proc. Boston Soc. Nat. Hist., 13: 296 (1870). TL — "New England". Type may be in MCZ.
      = *plautus* (Scudder and Burgess) *NISONIADES*. Proc. Boston Soc. Nat. Hist., 13: 304 (1870). TL — "Florida". Type may be in MCZ or lost.
   b. **j. clitus** (W. H. Edwards) *THANAOS*. Papilio, 2: 180 (1882). TL — "Mt. Graham, Graham Co., Arizona. LT in CM, designated by F. M. Brown and L. Miller, Trans. American Ent. Soc., 101: 617-621 (1975) [see **Note 53**]. **85b.**
      = *maestus* (Godman and Salvin) *THANAOS*. Biol. Cent.-Americana, Lepid. Rhop., 2: 457 (1899). TL — Pinal, Arizona; Puebla, Mexico. ST's in BM.
4. **telemachus** Burns. Wasmann J. Biol., 18: 148 (1960). TL Hualapai Mtns., 10 mi. SE of Kingman, Mohave Co., Arizona. HT in AMNH [see **Note 54**]. **86.**
5. **propertius** (Scudder and Burgess) *NISONIADES*. Proc. Boston Soc. Nat. Hist., 13: 298 (1870). TL — "California". Loc. of type not known [see **Note 55**]. **87.**
   = *tibullus* (Scudder and Burgess) *NISONIADES*. Proc. Boston Soc. Nat. Hist., 13: 299 (1870). TL not stated. Loc. of type not known.
6. **meridianus** Bell. J. New York Ent. Soc., 35: 261 (1927). TL — White Mtns., Arizona. HT in AMNH. **88.**
7. **scudderi** (Skinner) *THANAOS*. Trans. American Ent. Soc., 40: 215 (1914). TL — Fort Grant, Arizona. HT in CM [see **Note 56**]. **89.**
8. **horatius** (Scudder and Burgess) *NISONIADES*. Proc. Boston Soc. Nat. Hist., 13: 301 (1870). TL — "New England, Texas". ST's may be in MCZ. **90.**
   = *virgilius* (Scudder and Burgess) *NISONIADES*. Proc. Boston Soc. Nat. Hist., 13: 302 (1870). TL — "New England". Type may be in MCZ.
   = *petronius* (Lintner) *NISONIADES*. Papilio, 1: 70 (1881). TL — "Florida". Type may be in New York State Museum, Albany.
9. **tristis** (Boisduval) *THANAOS*. Ann. Soc. Ent. France, (2)10: 311 (1852). TL — "California". Type may be in USNM.
   a. **t. tristis** (Boisduval) *THANAOS*. Ann. Soc. Ent. France, (2)10: 311 (1852). TL — "California". Type may be in USNM. **91a.**

b. **t. tatius** (W. H. Edwards) *THANAOS.* Papilio, 2: 179 (1882). TL — Mt. Graham, Graham Co., Arizona. HT in USNM (see F. M. Brown and L. Miller, Trans. American Ent. Soc., 101: 621-623, 1975). 91b.

= *albomarginatus* (Godman and Salvin) *THANAOS.* Biol. Cent.-Americana, Lepid. Rhop., 2: 458 (1899). TL — "Guatemala". HT in BM.

10. **martialis** (Scudder) *NISONIADES.* Trans. Chicago Acad. Sci., 1: 335 (1869). TL — New Jefferson, Dallas Co., Iowa. ST's may be in MCZ. 92.

= *quercus* (Butler) *THANAOS.* Ent. Mo. Mag., 7: 97 (1870). TL not stated. HT in BM.

= ab. "ausonius" (Lintner) *NISONIADES.* 23rd Rept. New York State Cab. Nat. Hist., [1869]: 166 (1872). TL — Center, New York. Type should be in New York State Museum, Albany.

11. **pacuvius** (Lintner) *NISONIADES.* 30th Rept. New York State Mus. Nat. Hist., [1876]: 172 (1878). TL — "New Mexico". Type probably in New York State Museum, Albany.

a. **p. pacuvius** (Lintner) *NISONIADES.* 30th Rept. New York State Mus. Nat. Hist., [1876]: 172 (1878). TL — "New Mexico". Type probably in New York State Museum, Albany. 93a.

b. **p. lilius** (Dyar) *THANAOS.* Proc. U. S. Natl. Mus., 27: 788 (1904). TL — Kaslo, British Columbia. HT in USNM. 93b.

c. **p. pernigra** (Grinnell) *THANAOS.* Ent. News, 16: 34 (1905). TL — Mill Valley, Mt. Tamalpais, Marin Co., California. HT in AMNH [see **Note 57**]. 93c.

d. **p. callidus** (Grinnell) *THANAOS.* Ent. News, 15: 114 (1904). TL — Mt. Wilson, Los Angeles Co., California. LT in AMNH, designated by dos Passos, American Mus. Novitates, (1337): 1 (1947). 93d.

12. **zarucco** (Lucas) *THANAOS. in* Sagra, Hist. Cuba, 7: 641 (1857). TL — "Cuba". Type probably in MNHN. 94.

= *terentius* (Scudder and Burgess) *NISONIADES.* Proc. Boston Soc. Nat. Hist., 13: 292 (1870). TL — "Florida". Type may be in MCZ.

= *ovidius* (Scudder and Burgess) *NISONIADES.* Proc. Boston Soc. Nat. Hist., 13: 295 (1870). TL — "Florida". Type may be in MCZ.

= *naevius* (Lintner) *NISONIADES.* Papilio, 1: 69 (1881). TL — "Florida". Type should be in New York State Museum, Albany.

= *diogenes* (Plötz) *[ANTIGONUS].* Jahrb. nass. Verh., 37: 34 (1884). TL — "Cuba". Type may be in Munich or lost [see **Note 6**].

13. **funeralis** (Scudder and Burgess) *NISONIADES.* Proc. Boston Soc. Nat. Hist., 13: 293 (1870). TL — "Texas". Type may be in MCZ [see **Note 58**]. 95.

= *clericalis* (Burmeister) *HELIAS.* Descr. phys. Rep. Argentine, 5: 258 (1878). TL — Cordova, Argentina. Type may be in Buenos Aires. [see **Note 59**].

= *australis* (Mabille) *NISONIADES.* Ann. Soc. Ent. Belgique, 27 Bull.: 54 (1883). TL not stated. Type may be in MNHN.

14. **lucilius** (Scudder and Burgess) *NISONIADES.* Proc. Boston Soc. Nat. Hist., 13: 287 (1870). TL — "New England". Type may be in MCZ. 96.

15. **baptisiae** (Forbes) *THANAOS.* Psyche, 43: 111 (1936). TL — Woods Hole, Massachusetts. HT in Cornell Univ. 97.

16. **afranius** (Lintner) *NISONIADES.* 30th Rept. New York State Mus. Nat. Hist., [1876]: 175 (1878). TL — "Colorado". HT apparently in New York State Museum, Albany. 98.

17. **persius** (Scudder) *NISONIADES.* Proc. Essex Inst., 3: 170 (1863). TL — "New England". ST's may be in MCZ [see **Note 60**].

a. **p. persius** (Scudder) *NISONIADES.* Proc. Essex Inst., 3: 170 (1863). TL — "New England". ST's may be in MCZ [see **Note 60**]. 99a.

b. p. **borealis** (Cary) *THANAOS*. Proc. U. S. Natl. Mus., 31: 455 (1907). TL — mouth of North Nahanni R., Dist. of Mackenzie, Northwest Terr. HT in USNM. 99b.

c. p. **avinoffi** (Holland) *THANAOS*. Ann. Carnegie Mus., 19: 156 (1930). TL — Yukon and Kuskokwim valleys, Alaska. ST's in CM. 99c.

d. p. **fredericki** H. A. Freeman. Ent. News, 54: 74 (1943). TL — Spearfish Canyon, Lawrence Co., South Dakota. HT in AMNH. 99d.

Genus XXXVIII: **Pyrgus** Hübner

Verz. bekannt. Schmett., (7): 109 [1819]. Type-species by designation of Westwood, British Butt. Trans., ed. 1: 120 [1841], *Papilio alveolus* Hübner, Samml. europaischer Schmett.: pl. *Pap.* 92, figs. 466-467 [1800-1803] (=*Papilio malvae* Linnaeus, Syst. Nat., ed. 10, 1: 485; 1758) [see **Notes 61** and **62**].

= *Scelotrix* Rambur, Cat. Syst. Lepid. Andalusia: 63 (1858). Type-species by designation of Watson, Proc. Zool. Soc. London, [1893]: 64 (1893), *Papilio carthami* Hübner, Samml. europaischer Schmett.: pl. *Pap.* 143, figs. 726 [*recte* 720], 723 [1808-1813] (=*Papilio fritillarius* Poda, Ins. Mus. Graec.: 79, 1761) [see **Note 63**].

= ‡*Bremeria* Tutt, Nat. Hist. British Butts., 1: 296 (1906). Type-species by designation of Lindsey, Univ. Iowa Stud. Nat. Hist., 9(4): 37 (1921), *Syrichtus bieti* Oberthür, Etud. Ent., 11: 26 (1886). Preoccupied by *Bremeria* Alpheraky, *in* Romanoff, Mem. Lepid., 6: 7 (1892) and *Bremeria* Moore, Lepid. Indica, 3: 9 (1896).

= *Teleomorpha* Warren, Trans. Ent. Soc. London, 74: 18, 46 (1926). Type-species by designation of Hemming, Stylops, 3: 143 (1934), *Papilio carthami* Hübner, Samml. europaischer Schmett.: pl. *Pap.* 143, figs. 726 [*recte*720], 723 [1808-1813] (=*Papilio fritillarius* Poda, Ins. Mus. Graec.: 79, 1761).

= *Hemiteleomorpha* Warren, Trans. Ent. Soc. London, 74: 19, 72 (1926). Type- species by designation of Hemming, Stylops, 3: 143 (1934), *Papilio malvae* Linnaeus, Syst. Nat., ed. 10, 1: 485 (1758).

= *Ateleomorpha* Warren, Trans. Ent. Soc. London, 74: 19, 87 (1926). Type-species by designation of Hemming, Stylops, 3: 143 (1934), *Hesperia onopordi* Rambur, Faun. Ent. Andalusia, 2: 319 (1840).

= *Heliopyrgus* Herrera, *in* Herrera, Etcheverry and Hochleitner, Rev. Chilena Ent., 5: 154 (1957). Type-species by original designation *Syrichtus americanus* Blanchard, *in* Gay, Hist. Fis. Pol. Chile: 744 (1852).

*1. **centaureae** (Rambur) *HESPERIA*. Fauna Ent. Andalusia, 2: 315 (1840). TL — "Andalusia". Type probably lost.

a. c. **freija** (Warren) *HESPERIA*. Trans. Ent. Soc. London, [1924]: 56 (1924). TL — "Labrador". Loc. of type not known (BM?). 100a.

= ab. "fasciata" (Warren) *HESPERIA*. Trans. Ent. Soc. London, 74: 51 (1926). TL not stated. Loc. of type not known (BMNH?) [see **Note 64**].

b. c. **wyandot** (W. H. Edwards) *HESPERIA*. Proc. Ent. Soc. Philadelphia, 2: 21 (1863). TL — Long Island, New York, restricted by F. M. Brown and L. Miller, Trans. American Ent. Soc., 101: 630-633 (1975). LT in FMNH, designated by F. M. Brown and L. Miller, Trans. American Ent. Soc., 101: 630-633 (1975). 100b.

c. c. **loki** Evans. Cat. American Hesp. . .British Mus., (3): 214 (1953). TL — Long Peak trail, above timberline, Colorado. HT in BM. 100c.

2. **ruralis** (Boisduval) *SYRICHTUS*. Ann. Soc. Ent. France, (2)10: 311 (1852). TL — "California". Type may be lost, in USNM or MNHN [see **Note 22**]. 101.

= *caespitatis* (Boisduval) *SYRICHTUS*. Ann. Soc. Ent. France, (2)10: 312 (1852). TL — "California". Type stated to be in BM by Evans, Cat. American Hesp. . .British Mus., (3): 217 (1953) [see **Notes 22** and **65**].

= *ricara* (W. H. Edwards) *HESPERIA*. Proc. Ent. Soc. Philadelphia, 4: 203 (1865). TL not stated, but restricted to Empire, Clear Creek Co., Colorado, by F. M. Brown and L. Miller, Trans. American Ent. Soc., 101: 626-628 (1975). LT in CM, designated by F. M. Brown and L. Miller, Trans. American Ent. Soc., 101 626-628 (1975) [see **Note 66**].

= *petreius* (W. H. Edwards) *SYRICHTUS*. Trans. American Ent. Soc., 3: 195 (1870). TL — "Nevada", restricted to Little Valley, Washoe Co., by F. M. Brown and L. Miller, Trans. American Ent. Soc., 101: 628-630 (1975). NT in CM, designated by F. M. Brown and L. Miller, Trans. American Ent. Soc., 101: 628-630 (1975).

3. **xanthus** W. H. Edwards. Field and Forest, 3: 142 (1878). TL — "So. Colorado", restricted to Rosita, Custer Co., by F. M. Brown and L. Miller, Trans. American Ent. Soc., 101: 624-626 (1975). LT in CM, designated by F. M. Brown and L. Miller, Trans. American Ent. Soc., 101: 624-626 (1975) [see **Note 67**]. **102.**

= *mcdunnoughi* (Oberthür) *SYRICHTUS*. Etud. Lepid. Comp., (2)9: 86 (1913). TL not stated, but restricted by implication to "Arizona" by Barnes and McDunnough, Contrib. Nat. Hist. Lepid. North America, 3: 122 (1916). Type may be in USNM, MNHN or lost [see **Notes 22** and **68**].

4. **scriptura** (Boisduval) *SYRICHTUS*. Ann. Soc. Ent. France, (2)10: 312 (1852). TL — "California". Type may be in MNHN, USNM or lost [see **Note 22**]. **103.**

5. **communis** (Grote) *SYRICHTUS*. Canadian Ent., 4: 69 (1872). TL — central Alabama. Loc. of type not known. **104.**

= ‡*tessellata* (Scudder) *HESPERIA*. 4th Ann. Rept. Peabody Acad. Sci., [1871]: 73 (1872). TL not stated. Type may be in MCZ. Preoccupied by *Hesperia tessellata* Hewitson, Trans. Ent. Soc. London, (3)2: 494 (1866).

= *albovittata* (Grote) *HESPERIA*. Bull. Buffalo Soc. Nat. Hist., 1: 168 (1873). TL not stated. Loc. of type not known.

= *insolatrix* Plötz. Mitth. Nat. Ver. Neuvorpomm., 15: 15 (1884). TL — "Mexico". Type may be in Munich [see **Note 6**].

= *varus* Plötz. Mitth. Nat. Ver. Neuvorpomm, 15: 20 (1884). TL — "Mexico". Type may be in Munich [see **Note 6**].

= ab. "skinneri" (Gunder) *URBANUS*. Ent. News, 38: 51 (1927). TL — Los Angeles, California. HT in AMNH.

6. **albescens** Plötz. Mitth. Nat. Ver. Neuvorpomm., 15: 4 (1884). TL — "Mexico". Type may be in Munich [see **Note 6** and **69**]. **105.**

= *occidentalis* Skinner. Ent. News, 17: 96 (1906). TL stated as "Cochise Co., Arizona and Brownsville, Texas"; but actual label bears "San Antonio, Texas. HT in CM.

7. **oileus** (Linnaeus) PAPILIO. Syst. Nat., ed. 12: 795 (1767). TL — "Algeria", but probably Mexico or the U.S., according to Evans, Cat. American Hesp. . . . British Mus., (3): 221 (1953). HT in Linnaean Soc., London. **106.**

= *syrichtus* (Fabricius) *PAPILIO*. Syst. Ent.: 534 (1775). TL — "America", probably St. Croix. 2 ST's in Kiel.

= *adjutrix* Plötz. Mitth. Nat. Ver. Neuvorpomm., 15: 15 (1884). TL — "Mexico". Type may be in Munich [see **Note 6**].

= *fumosa* (Reverdin) *HESPERIA*. Bull. Soc. Lepid. Geneve, 4: 106 (1919). TL — "western Texas". Loc. of type not known [see **Note 70**].

= f. "montivagus" Reakirt. Proc. Acad. Nat. Sci. Philadelphia, 18: 334 (1866). TL — "Mexico, nr. Vera Cruz"; Rocky Mtns., Colorado". Type may be in FMNH.

8. **philetas** W. H. Edwards. Papilio, 1: 46 (1881). TL — " Texas", restricted to Archer Co. by F. M. Brown and L. Miller, Trans. American Ent. Soc., 101: 623-624 (1975). HT in CM. 107.

Genus XXXIX: **Heliopetes** Billberg

Enum. Ins. Mus. Billberg: 81 (1820). Type-species by monotypy *Papilio niveus* Cramer, Uitl. Kapellen, 1: 33 [1775] (=*Papilio arsalte* Linnaeus, Syst. Nat., ed. 10, 1: 469, 1758).

= *Leucoscirtes* Scudder, 4th Ann. Rept. Peabody Acad. Sci., [1871]: 73 (1872). Type-species by original designation *Syrichtus ericetorum* Boisduval, Ann. Soc. Ent. France, (2)10: 313 (1852).

1. **domicella** (Erichson) *SYRICHTUS. in* Schomburgk, Reise Britische Guiana, 3: 604 (1848). TL — "British Guiana" (Guyana). Loc. of type not known [see Note 71]. 108.

= *nearchus* (W. H. Edwards) *PYRGUS.* Papilio, 2: 26 (1882). TL — "Arizona", restricted to nr. Tucson, Pima Co., by F. M. Brown and L. Miller, Trans. American Ent. Soc., 101: 637-639 (1975). LT in CM, designated by F. M. Brown and L. Miller, Trans. American Ent. Soc., 101: 637-639 (1975).

= *aconita* (Plötz) *PYRGUS.* Mitth. Nat. Ver. Neuvorpomm., 15: 3 (1884). TL — "Georgia", in error. Type may be in Munich [see Note 6].

2. **ericetorum** (Boisduval) *SYRICHTUS.* Ann. Soc. Ent. France, (2)10: 313 (1852). TL — "California". Type may be in USNM, MNHN or lost [see Note 22]. 109.

= *alba* (W. H. Edwards) *SYRICHTUS.* Proc. Ent. Soc. Philadelphia, 6: 206 (1867). TL not stated, but restricted to Fort Whipple, Arizona, by F. M. Brown and L. Miller, Trans. American Ent. Soc., 101: 635-637 (1975). LT in CM, designated by F. M. Brown and L. Miller, Trans. American Ent. Soc., 101: 635-637 (1975).

3. **laviana** (Hewitson) *LEUCOCHITONEA.* Descr. one-hundred new spp. Hesp., (2): 48 [1868]. TL — "Nicaragua". HT in BM. 110.

= *pastor* (R. Felder) *LEUCOCHITONEA.* Verh. zool.-bot. Ges. Wien, 19: 476 (1869). TL — Lerma, Mexico. Type may be in Vienna.

= *oceanus* (W. H. Edwards) *SYRICHTUS.* Trans. American Ent. Soc., 3: 213 (1871). TL not stated, but probably vic. Guaymas, Sonora, Mexico, according to F. M. Brown and L. Miller, Trans. American Ent. Soc., 101: 633-635 (1975). HT in CM.

4. **macaira** (Reakirt) *PYRGUS.* Proc. Acad. Nat. Sci. Philadelphia, 18: 334 (1866). TL — "nr. Vera Cruz" and Orizaba, Mexico. At least one ST in FMNH. 111.

= *nivea* (Scudder) *LEUCOSCIRTES.* 4th Ann. Rept. Peabody Aca. Sci., [1871]: 73 (1872). TL — "Tehuantepec" [Mexico]. Type may be in MCZ.

= *locutia* (Hewitson) *LEUCOCHITONEA.* Exot. Butt., 5: pl. Leucochitonea 2, figs. 19-20 (1875). TL — Taboga Isl., Panama. HT in BM.

= *eulalia* (Plötz) *LEUCOCHITONEA.* Stettiner Ent. Ztg., 46: 39 (1885). TL not stated. Type may be in Munich or lost [see Note 6].

= *orbigera* (Mabille) *LEUCOCHITONEA.* Le Naturaliste, 10: 242 (1888). TL — "Brasil". Type may be in MNHN.

= *cnemus* Godman and Salvin. Biol Cent.-Americana, Lepid. Rhop., 2: 448 (1897). TL — "Mexico". HT in BM.

5. **arsalte** (Linnaeus) *PAPILIO.* Syst. Nat., ed. 10, 1: 762 (1758). TL — "in Indiis". Type may be in Uppsala, Sweden, or lost. 112.

= *niveus* (Cramer) *PAPILIO.* Uitl. Kapellen, 1: 33 [1775]. TL — "in Indiis", Type probably lost.

= *menalcus* (Fabricius) *PAPILIO.* Syst. Ent.: 535 (1775). TL — "in

Indiis". One Fabrician specimen (ST?) in Kiel Mus.
= *crameri* Billberg. Enum. Ins. Mus. Billberg: 81 [1820]. TL — "Surinam". Type probably lost.
= *figara* (Butler) *PYRGUS*. Trans. Ent. Soc. London, [1870]: 510 (1870). TL not stated. HT in BM.

Genus XL: **Celotes** Godman and Salvin

Biol. Cent.-Americana, Lepid. Rhop., 2: 452 (1899). Type-species by monotypy *Pholisora nessus* W. H. Edwards, Canadian Ent., 9: 192 (1877).

1. **nessus** (W. H. Edwards) *PHOLISORA*. Canadian Ent., 9: 192 (1877). TL — San Antonio, Texas. LT in CM, designated by F. M. Brown and L. Miller, Trans. American Ent. Soc., 101: 639-640 (1975). **113.**
= *notabilis* (Strecker) *SPILOTHYRUS*. Lepid. Rhop. Het.: 131 (1878). TL — vic. New Braunfels and San Antonio, Texas. 4 ST's in FMNH.
= *radiatus* (Plötz) *CARCHARODUS*. Mitth. Nat. Ver. Neuvorpomm., 15: 23 (1884). TL — "Texas". Type may be in Munich or lost [see **Note 6**].
2. **limpia** Burns. Psyche, 81: 51 (1974). TL — Limpia Canyon, Davis Mtns., 4 mi. WNW Fort Davis, Jeff Davis Co., Texas, 5000'. HT in MCZ. **114.**

Genus XLI: **Pholisora** Scudder

4th Ann. Rept. Peabody Acad. Sci., [1871]: 72 (1872). Type-species by original designation *Hesperia catullus* Fabricius, Ent. Syst., 3: 348 (1793).
= *Hesperopsis* Dyar, J. New York Ent. Soc., 13: 118 (1905). Type-species by original designation *Thanaos alpheus* W. H. Edwards, Trans. American Ent. Soc., 5: 206 (1876).

1. **catullus** (Fabricius) *PAPILIO*. Ent. Syst., 3: 348 (1793). TL — "in Indiis", probably Georgia. Type lost, may have been based on figures by Jones and Donovan. **115.**
2. **mejicanus** (Reakirt) *NISONIADES*. Proc. Acad. Nat. Sci. Philadelphia, 18: 334 (1866). TL — "nr. Vera Cruz, Mexico". Type may be in FMNH [see **Notes 40** and **72**]. **116.**
3. **libya** (Scudder) *HETEROPTERUS*. Bull. Geol. Surv. Terr., 4: 258 (1878). TL — Beaver Dam, Arizona. Loc. of type not known.
   a. **l. libya** (Scudder) *HETEROPTERUS*. Bull. Geol. Surv. Terr., 4: 258 (1878). TL — Beaver Dam, Arizona. Loc. of type not known. **117a.**
   b. **l. lena** (W. H. Edwards) *ANCYLOXYPHA*. Canadian Ent., 14: 5 (1882). TL — Miles City, Montana. LT in CM, designated by F. M. Brown and L. Miller, Trans. American Ent. Soc., 101: 645-646 (1975). **117b.**
4. **alpheus** (W. H. Edwards) *THANAOS*. Trans. American Ent. Soc., 5: 206 (1876). TL — "New Mexico", restricted to Colfax Co. by F. M. Brown and L. Miller, Trans. American Ent. Soc., 101: 641-643 (1975). LT in CM, designated by F. M. Brown and L. Miller, Trans. American Ent. Soc., 101: 641-643 (1975).
   a. **a. alpheus** (W. H. Edwards) *THANAOS*. Trans. American Ent. Soc., 5: 206 (1876). TL — "New Mexico", restricted to Colfax Co. by F. M. Brown and L. Miller, Trans. American Ent. Soc., 101: 641-643 (1975). LT in CM, designated by F. M. Brown and L. Miller, Trans. American ent. Soc., 101: 641-643 (1975). **118a.**
   b. **a. oricus** W. H. Edwards. Canadian Ent., 11: 51 (1879). TL — "Nevada", restricted to Buffalo Canyon, Churchill Co., by F. M. Brown and L. Miller, **118b.**

Trans. American Ent. Soc., 101: 643-645 (1975). LT in CM, designated by F. M. Brown and L. Miller, Trans. American Ent. Soc., 101: 643-645 (1975).
= *arizonensis* (Mabille and Boullet) *HESPEROPSIS*. Bull. Soc. Ent. France, [1917]: 100 (1917). TL — "Arizona". HT in BM.

5. **gracielae** MacNeill. Ent. News, 81: 177-179 (1970). TL — Bennett Wash, nr. Parker Dam, San Bernardino Co., California. HT in CAS. 119.

Subfamily **Heteropterinae** Aurivillius

in Seitz, Macrolepid. World, 13: 506, 546 (1925).

Genus XLII: **Carterocephalus** Lederer

Verh. zool.-bot. Ges. Wien, 2: 26 (1852). Type-species by designation of Scudder, Proc. American Acad. Arts Sci., 10: 134 (1875) *Papilio paniscus* Fabricius, Syst. Ent.: 531 (1775) (=*Papilio palaemon* Pallas, Reise durch. Prov. Russischen. . . ., 1: 471, 1771) [see **Note 73**].
= *Aubertia* Oberthür. Etud. Ent., 20: 40 (1896). Type-species by designation of Lindsey, Ann. Ent. Soc. America, 18: 79 (1925) *Aubertia dulcis* Oberthür, Etud. Ent., 20: 40 (1896) (=*Carterocephalus christophi* Groum-Grschimailo, Hor. Soc. Ent. Rossiae, 25: 460, 1891).
= *Pamphilida* Lindsey, Ann. Ent. Soc. America, 18: 95 (1925). Type-species by original designation *Papilio palaemon* Pallas, Reise durch Prov. Russischen. . . ., 1: 471 (1771) [see **Note 74**].

*1. **palaemon** (Pallas) *PAPILIO*. Reise durch Prov. Russischen. . . ., 1: 471 (1771). TL — "Russia". Type, if it exists, in Berlin [see **Note 75**].

a. **p. mandan** (W. H. Edwards) *HESPERIA*. Proc. Ent. Soc. Philadelphia, 2: 20-21 (1863). TL — "Lake Winnipeg", restricted to Pine Ridge, Manitoba, by F. M. Brown and L. Miller, Trans. American Ent. Soc., 103: 261-262 (1977). NT in CM, designated by F. M. Brown and L. Miller, Trans. American Ent. Soc., 103: 262 (1977). 120a.
= *mesapano* (Scudder) *HESPERIA*. Proc. Boston Soc. Nat. Hist., 11: 383 (1868). TL — Norway, Maine. Type should be in MCZ.
= *skada* (W. H. Edwards) *CYCLOPIDES*. Trans. American Ent. Soc., 3: 196 (1870). TL — "Kodiak", Alaska. NT in CM, designated by F. M. Brown and L. Miller, Trans. American Ent. Soc., 103: 263-264 (1977) [see **Note 76**].

Genus XLIII: **Piruna** Evans

Cat. American Hesp. . .British Mus., (4): 10, 11 (1955). Type-species by original designation *Pholisora pirus* W. H. Edwards, Field and Forest, 3: 119 (1878) [see **Note 77**].

1. **pirus** (W. H. Edwards) *PHOLISORA*. Field and Forest, 3: 119 (1878). TL — "So. Colorado", restricted to Hardscrabble Canyon, Custer Co., by F. M. Brown and L. Miller, Trans. American Ent. Soc., 103: 265 (1977). LT in CM, designated by F. M. Brown and L. Miller, Trans. American Ent. Soc., 103: 265 (1977). 121.
= *semicaeca* (Mabille and Boullet) *PHOLISORA*. Bull. Soc. Ent. France,

[1917]: 100 (1917). TL — "Utah". Type may be in MNHN or BM.

2. **polingii** (Barnes) *PYRGUS.* Canadian Ent., 32: 44 (1900). TL — Huachuca Mtns., Cochise Co., Arizona. HT in USNM. 122.
3. **microsticta** (Godman) *BUTLERIA. in* Godman and Salvin, Biol. Cent.-Americana, Lepid. Rhop., 2: 464 (1900). TL — Chilpancingo, Guerrero, Mexico. HT in BM. 123.
4. **haferniki** H. A. Freeman. J. Lepid. Soc., 24: 247-248 (1970). TL — Green Gulch, Big Bend Natl. Park, Brewster Co., Texas. HT in AMNH. 124.

Subfamily **Hesperiinae** Latreille

Genera Crustaceorum et Insectorum, 4: 207 (1809) [see **Notes 1** and **2**].

Genus XLIV: **Synapte** Mabille

in P. Wytsman, Gen. Ins., 17B: 133 (1904). Type-species by monotypy *Carystus salenus* Mabille, Ann. Soc. Ent. Belgique, 27 Bull.: 60 (1883) [see **Notes 78**].

= ‡*Godmania* Skinner and Ramsden, Proc. Acad. Nat. Sci. Philadelphia, 75: 321 (1923). Type-species by monotypy *Goniloba malitiosa* Herrich-Schäffer, CorrespBl. zool.-min. Ver. Regensburg, 19: 54 (1865). Preoccupied by *Godmania* Horvath, Ann. Mus. Hungariensis, 17: 211, 222 (1919).

*1. **malitiosa** (Herrich-Schäffer) *GONILOBA.* CorrespBl. zool.-min. Ver. Regensburg, 19: 54 (1865). TL — "Cuba". HT in ANSP.

a. **m. pecta** Evans. Cat. American Hesp. . .British Mus., (4): 51 (1955). TL — "Mexico". HT in BM. 125a.

2. **salenus** (Mabille) *CARYSTUS.* Ann. Soc. Ent. Belgique, 27 Bull.: 60 (1883). TL — "Colombia". HT in BM. 126.

Genus XLV: **Corticea** Evans

Cat. American Hesp. . .British Mus., (4): 46, 63 (1955). Type-species by original designation *Hesperia corticea* Plötz, Stettiner Ent. Ztg., 44: 56 (1883).

1. **corticea** (Plötz) *HESPERIA.* Stettiner Ent. Ztg., 44: 56 (1883). TL — "Venezuela". Type may be in Munich or lost [see **Note 6**]. 127.

Genus XLVI: **Callimormus** Scudder

4th Ann. Rept. Peabody Acad. Sci., [1871]: 74 (1872). Type-species by original designation *Callimormus juventus* Scudder, 4th Ann. Rept. Peabody Acad. Sci., [1871]: 74 (1872).

1. **saturnus** (Herrich-Schäffer) *COBALUS.* CorrespBl. zool.-min. Ver. Regensburg, 23: 201 (1869). TL not stated. Type may be in Vienna. 128.
= *tenera* (Plötz) *APAUSTUS.* Stettiner Ent. Ztg., 45: 161 (1884). TL — "Laguayra". Type may be in Munich or lost [see **Note 6**].

Genus XLVII: **Vidius** Evans

Cat. American Hesp. . .British Mus., (4): 87, 121 (1955). Type-species by original designation *Narga vidius* Mabille, Ann. Soc. Ent. Belgique, 35 Bull.: 70: (1891).

1. **perigenes** (Godman) *MASTOR. in* Godman and Salvin, Biol. Cent.-Americana, Lepid. Rhop., 2: 569 (1900). TL — Rincon, Guerrero, Mexico. HT in BM. **129.**

Genus XLVIII: **Monca** Evans

Cat. American Hesp. . .British Mus., (4): 87, 124 (1955). Type-species by original designation *Cobalus telata* Herrich-Schäffer, CorrespBl. zool.-min. Ver. Regensburg, 23: 201 (1869).

1. **tyrtaeus** (Plötz) *HESPERIA.* Stettiner Ent. Ztg., 44: 51 (1883). TL — "Laguayra". Type may be in Munich or lost [see **Notes 6** and **79**]. **130.**

Genus XLIX: **Nastra** Evans

Cat. American Hesp. . .British Mus., (4): 87, 125 (1955). Type-species by original designation *Hesperia lherminier* Latreille, Enc. Meth., 9: 777 [1824] [see **Note 80**].

1. **lherminier** (Latreille) *HESPERIA.* Enc. Meth., 9 (Ins.), (2): 777 [1824]. TL — "Carolina". Type probably in MNHN [see **Note 80**]. **131.**
   = *fusca* (Grote and Robinson) *HESPERIA.* Trans. American Ent. Soc., 1: 2 (1867). TL — "Atlantic dist. of Georgia and Florida". HT(?) in AMNH.
2. **julia** (H. A. Freeman) *LERODEA.* Ent. News, 56: 204-205 (1945). TL — Pharr, Texas. HT in AMNH. **132.**
3. **neamathla** (Skinner and R. C. Williams) *LERODEA.* Trans. American Ent. Soc., 49: 145 (1923). TL — "central Florida". HT in CM. **133.**

Genus L: **Cymaenes** Scudder

4th Ann. Rept. Peabody Acad. Sci., [1871]: 82 (1872). Type-species by original designation *Cobalus tripunctus* Herrich-Schäffer, CorrespBl. zool.-min. Ver. Regensburg, 19: 53 (1865).
   = *Megistias* Godman, *in* Godman and Salvin, Biol. Cent.-Americana, Lepid. Rhop., 2: 571 (1900). Type-species by original designation *Hesperia tripunctata* Latreille, Enc. Meth., 9: 752 [1824].

1. **tripunctis** (Herrich-Schäffer) *COBALUS.* CorrespBl. zool.-min. Ver. Regensburg, 19: 53 (1865). TL — "Cuba". HT in ANSP. **134.**
   = *jamaca* (Schaus) *MEGISTIAS.* Proc. U. S. Natl. Mus., 24: 452 (1902). TL — "Jamaica". HT in USNM.
      = ab. "sinepunctis" (Avinoff and Shoumatoff) *LERODEA.* Ann. Carnegie Mus., 30: 293 (1946). TL — Cave River, Clarendon Parish, Jamaica. HT in CM

*2. **odilia** (Burmeister) *CARYSTUS.* Descr. Phys. Rep. Argentina, 5: 272 (1878). TL — Buenos Aires, Argentina. Loc. of type not known.
   = *corescens* (Schaus) *MEGISTIAS*(?). Proc. U. S. Natl. Mus., 24: 452-453 (1902). TL — Castro, Parana, Brasil. HT in USNM.

a. o. **trebius** (Mabille) *PAMPHILA*. Bull. Soc. Ent. Belgique, 35: 174 (1891). TL — Bogota, Colombia. Type may be in MNHN. 135a.
= *isus* (Godman) *MEGISTIAS*. *in* Godman and Salvin, Biol. Cent.-Americana, Lepid. Rhop., 2: 574 (1900). TL — "Mexico". ST's in BM.

Genus LI: **Lerema** Scudder

4th Ann. Rept. Peabody Acad. Sci., [1871]: 82 (1872). Type-species by original designation *Papilio accius* J. E. Smith, *in* Abbot and Smith, Nat. Hist. Rarer Lepid. Ins. Georgia, 1: 45 (1797).
= *Sarega* Mabille, *in* P. Wytsman, Gen. Ins., 17B: 133 (1904). Type-species by monotypy *Sarega staurus* Mabille, *in* P. Wytsman, Gen. Ins., 17B; 133 (1904).

1. **accius** (J. E. Smith) *PAPILIO*. *in* Abbot and Smith, Nat. Hist. Rarer Lepid. Ins. Georgia, 1: 45 (1797). TL — "Georgia", almost certainly around Screven. Co. Type does not exist and is represented by Abbot's plate [see **Note 81**]. 136.
= *monoco* (Scudder) *HESPERIA*. Proc. Essex Inst., 3: 178 (1864). TL — "Connecticut and Massachusetts". ST's in MCZ, if they are recognizable.
= *punctella* (Grote and Robinson) *HESPERIA*. Trans. American Ent. Soc., 1: 1 (1867). TL — "Atlantic dist. of Georgia". Loc. of type not known (AMNH?).
= *nortonii* (W. H. Edwards) *HESPERIA*. Trans. American Ent. Soc., 1: 287 (1867). TL — New Orleans, Louisiana. LT in CM, designated by F. M. Brown and L. Miller, Trans. American Ent. Soc., 103: 266 (1977).
= *parumpunctata* (Herrich-Schäffer) *GONILOBA*. CorrespBl. zool.-min. Ver. Regensburg, 23: 196 (1869). TL not stated. Type may be in Vienna.
= *pattenii* Scudder. 4th Ann. Rept. Peabody Acad. Sci., [1871]: 82 (1872). TL — "Guatemala". Type may be in MCZ.
= *phocylides* (Plötz) *HESPERIA*. Stettiner Ent. Ztg., 44: 52 (1883). TL — "Laguayra". Type may be in Munich or lost [see **Note 6**].

2. **liris** Evans. Cat. American Hesp. . .British Mus. (4): 164 (1955). TL — Atoyac, Veracruz, Mexico. HT in BM [see **Note 82**]. 137.

Genus LII: **Perichares** Scudder

4th Ann. Rept. Peabody Acad. Sci., [1871]: 81 (1872). Type-species by original designation *Papilio coridon* Fabricius, Syst. Ent.: 533 (1775), preoccupied (=*Papilio philetes* Gmelin, *in* Linnaeus, Syst. Nat., ed. 13, 1(5): 2364, 1790).

*1. **philetes** (Gmelin) *PAPILIO*. *in* Linnaeus, Syst. Nat., ed. 13, 1(5): 2364 (1790). TL — "Jamaica". Loc. of type not known.
= ‡*coridon* (Fabricius) *PAPILIO*. Syst. Ent.: 533 (1775). TL — "America meridionale", corrected to Jamaica. ST's in Glasgow. Preoccupied by *Papilio coridon* Scopoli, Ent. Carniolica: 179 (1763).
= *phocion* (Fabricius) *HESPERIA*. Ent. Syst., 3(1): 335 (1793). TL — "Jamaica". ST's in Glasgow [see **Note 83**].
= *julianus* (Turton) *PAPILIO*. Gen. Syst. Nat., (2): 158 (1806). TL — "Jamaica". ST's in Glasgow. Name proposed to replace *Hesperia phocion* Fabricius, wrongly thought preoccupied [see **Note 83**].
= *trinitad* (Lucas) *EUDAMUS*. *in* Sagra, Hist. Cuba, 7: 625 (1857). TL — "Cuba". HT in MNHN.

a. **p. adela** (Hewitson) *HESPERIA*. Descr. one-hundred new spp. Hesp., (1): 2 [1867]. TL — Rio de Janeiro, Brasil. HT in BM. 138a.
= *dolores* (Reakirt) *GONILOBA*. Proc. Acad. Nat. Sci. Philadelphia, [1868]: 67 (1868). TL — "nr. Vera Cruz, Mexico." Loc. of type not known.
= *marmorata* Scudder. 4th Ann. Rept. Peabody Acad. Sci., [1871]: 81 (1872). TL — "Venezuela". Type may be in MCZ.

Genus LIII: **Rhinthon** Godman

in Godman and Salvin, Biol. Cent.-Americana, Lepid. Rhop., 2: 530 (1900). Type-species by original designation *Proteides chiriquensis* Mabille, Le Naturaliste, (2)3: 127 (1889) (=*Hesperia osca* Plötz, Stettiner Ent. Ztg., 44: 48; 1883).

1. **osca** (Plötz) *HESPERIA*. Stettiner Ent. Ztg., 44: 48 (1883). TL — "Venezuela". Type may be in Munich or lost [see **Note 6**]. 139.
= *cabella* (Plötz) *HESPERIA*. Stettiner Ent. Ztg., 47: 96-97 (1886). TL — Puerto Cabello, [Venezuela]. Type may be in Munich or lost [see **Notes 6** and **87**].
= *chiriquensis* (Mabille) *PROTEIDES*. Le Naturaliste, (2)3: 127 (1889). TL — Chiriqui, [Panama]. HT in ZMHU [see **Note 19**].
= *biserta* (Schaus) *THRACIDES*. Proc. U. S. Natl. Mus., 24: 460 (1902). TL — Trinidad. HT in USNM.

Genus LIV: **Decinea** Evans

Cat. American Hesp. . .British Mus., (4): 266, 286 (1955). Type-species by original designation *Hesperia decinea* Hewitson, Ann. Mag. Nat. Hist., (4)18: 452 (1876).

1. **percosius** (Godman) *COBALUS*. *in* Godman and Salvin, Biol. Cent.-Americana, Lepid. Rhop., 2: 536 (1900). TL — Atoyac, Veracruz, Mexico. ST's in BM. 140.

Genus LV: **Conga** Evans

Cat. American Hesp. . .British Mus., (4): 266, 294 (1955). Type-species by original designation *Pamphila chydaea* Butler, Trans. Ent. Soc. London, [1877]: 152 (1877).

1. **chydaea** (Butler) *PAMPHILA*. Trans. Ent. Soc. London, [1877]: 152 (1877). TL — Serpa, Amazonas, Brasil. HT in BM [see **Note 85**]. 141.
= *valo* (Mabille) *PAMPHILA*. Ann. Soc. Ent. Belgique, 35 Bull.: 175 (1891). TL — Bogota, Colombia. Type may be in MNHN.
= *vala* (Mabille) *PAMPHILA*. Ann. Soc. Ent. Belgique, 35 Bull.: 176 (1891). TL — Chiriqui, [Panama]. Type may be in MNHN.
= *actor* (Mabille) *PAMPHILA*. Ann. Soc. Ent. Belgique, 35 Bull.: 182 (1891). TL — Chiriqui, [Panama]. Type may be in MNHN.

Genus LVI: **Ancyloxypha** C. Felder

Verh. zool.-bot. Ges. Wien, 12: 477 (1862). Type-species by original designation *Hesperia numitor* Fabricius, Ent. Syst., 3: 324 (1793) [see **Note 86**].

1. **numitor** (Fabricius) *HESPERIA*. Ent. Syst., 3: 324 (1793). TL — "in Indiis", certainly the eastern U. S. Type lost, name based on Jones' figure. 142.
= *bion* (Fabricius) *HESPERIA*. Ent. Syst., Suppl.: 432 (1798). TL — "America meridionali", certainly the eastern U. S. Type in Kiel (HT?,

LT?).

puer (Hübner) *THYMELICUS.* Zutr. z. Samml. exot. Schmett., 2: 17 [1823]. TL — "Florida". Type probably lost [see **Note 9**].

= *marginatus* (Harris) *HETEROPTERUS.* Rept. Ins. Inj. Veg., 3rd Ed.: 308 (1862). TL — "Massachusettts". Type probably lost.

= *longleyi* French. Canadian Ent., 22: 80 (1897). TL — Ridgeland, nr. Chicago, Illinois. Type probably lost.

2. **arene** (W. H. Edwards) *HETEROPTERUS.* Trans. American Ent. Soc., 3: 214-215 (1871). TL — nr. Tucson, Pima Co., Arizona, restricted by F. M. Brown and L. Miller, Trans. American Ent. Soc., 103: 266-267 (1977). NT in USNM, designated by F. M. Brown and L. Miller, Trans. American Ent. Soc., 103: 267 (1977). **143.**

= *myrtis* (W. H. Edwards) *COPAEODES.* Papilio, 2: 26 (1882). TL — Tucson, [Pima Co.], Arizona. HT in USNM.

= *euphrasia* (Plötz) *APAUSTUS.* Stettiner Ent. Ztg., 45: 166 (1884). TL — "Mexico". Type may be in Munich or lost [see **Note 6**].

= *leporina* (Plötz) *APAUSTUS.* Stettiner Ent. Ztg., 45: 166 (1884). TL — "Mexico". Type may be in Munich or lost [see **Note 6**].

= *isidorus* (Plötz) *APAUSTUS.* Stettiner Ent. Ztg., 45: 166 (1884). TL — "Mexico". Type may be in Vienna or lost [see **Note 6**].

Genus LVII: **Oarisma** Scudder

4th Ann. Rept. Peabody Acad. Sci., [1871]: 75 (1872). Type-species by original designation *Hesperia poweshiek* Parker, American Ent. Bot., 2: 271 (1870).

= *Paradopaea* Godman. *in* Godman and Salvin, Biol. Cent.-Americana, Lepid. Rhop., 3: pl. 97, figs, 23-29 (1900). Type-species by designation of Lindsey, Ann. Ent. Soc. America, 18: 96 (1925), *Hesperia garita* Reakirt, Proc. Ent. Soc. Philadelphia, 6: 150 (1866).

1. **poweshiek** (Parker) *HESPERIA.* American Ent. Bot., 2: 271 (1870). TL — Grinnell, [Poweshiek Co.], Iowa. Loc. of type not known [see **Note 87**]. **144.**

2. **garita** (Reakirt) *HESPERIA.* Proc. Ent. Soc. Philadelphia, 6: 150 (1866). TL — "Rocky Mtns., Colorado Terr.". Type should be in FMNH (Strecker collection) [see **Notes 88** and **89**]. **145.**

= *hylax* (W. H. Edwards) *THYMETICUS* (*sic!*). Trans. American Ent. Soc., 3: 274 (1871). TL — "Colorado". LT in CM, designated by F. M. Brown and L. Miller, Trans. American Ent. Soc., 103: 269-270 (1977). **146.**

3. **edwardsii** (Barnes) *THYMELICUS.* Canadian Ent., 29: 42 (1897). TL — Denver, Colorado. HT in USNM [see **Note 90**].

Genus LVIII: **Copaeodes** Speyer

in W. H. Edwards, Trans. American Ent. Soc., 6: 46, 64 (1877). Type-species by designation of W. F. Kirby, Zool. Rec., 14 [Ins.]: 139 [1879], *Heteropterus procris* W. H. Edwards, Trans. American Ent. Soc., 3: 215 (1871) (=*Ancyloxipha* [*sic!*] *aurantiaca* Hewitson, Descr. one-hundred new spp. Hesp., (2): 45, [1868]).

1. **aurantiaca** (Hewitson) *ANCYLOXIPHA (sic!).* Descr. one-hundred new spp. Hesp., (2): 45 [1868]. TL not stated. HT in BM [see **Note 91**]. **147.**

= *waco* (W. H. Edwards) *HESPERIA.* Trans. American Ent. Soc., 2: 122 (1868). TL — Dallas, Texas. NT in CM, designated by F. M. Brown and L. Miller, Trans. American Ent. Soc., 103: 271 (1977).

= *simplex* (R. Felder) *ANCYLOXYPHA.* Verh. zool.-bot. Ges. Wien, 19: 476 (1869). TL — "Mexico". Type may be in Vienna.

= *procris* (W. H. Edwards) *HETEROPTERUS.* Trans. American Ent.

Soc., 5: 215 (1871), ♂ only. TL — Waco, Texas. LT in CM, designated by F. M. Brown and L. Miller, Trans. American Ent. Soc., 103: 273-274 (1977).

= *macra* (Plötz) *THYMELICUS*. Stettiner Ent. Ztg., 45: 284 (1884). TL — "North America". Type may be in Munich, Berlin or lost [see **Note 6**].

= *candida* W. G. Wright. Proc. California Acad. Sci., (2)3: 34 (1890). TL — "canyons in foothills of southwestern California". LT in CAS, designated by Tilden, Occ. Pap. California Acad. Sci., (118): 38 (1975).

2. **minima** (W. H. Edwards) *HESPERIA*. Trans. American Ent. Soc., 3: 196 (1870). TL — Waco, Texas. HT in CM [see **Note 92**]. **148.**

= *procris* (W. H. Edwards) *HETEROPTERUS*. Trans. American Ent. Soc., 3: 215 (1871), ♀ only [see **Note 93**].

= *rayata* Barnes and McDunnough. Contrib. Nat. Hist. Lepid. N. America, 2: 100 (1913). TL — San Benito, Texas. HT in USNM.

Genus LIX: **Adopaeoides** Godman

in Godman and Salvin, Biol. Cent.-Americana, Lepid. Rhop., 2: 470 (1900). Type-species through action of Art. 70(a) *of International Code of Zoological Nomenclature* (misidentified type-species), *Apaustus prittwitzi* Plötz, Stettiner Ent. Ztg., 45: 165 (1884) [see **Note 94**].

= *Neadopaea* Hayward, Rev. Mus. La Plata, (n. s.) Zool., 2: 285 (1941). Type-species by original designation *Apaustus prittwitzi* Plötz, Stettiner Ent. Ztg., 45: 165 (1884).

1. **prittwitzi** (Plötz) *APAUSTUS*. Stettiner Ent. Ztg., 45: 165 (1884). TL — "Mexico". Type may be in Munich, Berlin or lost [see **Notes 6** and **95**]. **149.**

Genus LX: **Thymelicus** Hübner

Verz. bekannt. Schmett., (8): 113 [1819]. Type-species by designation of Butler, Ent. Mo. Mag., 7: 94 (1870), *Papilio acteon* von Rottemburg, Der Naturforscher, 6: 30 (1775) [see **Note 96**].

= *Adopaea* Billberg, Enum. Ins. Mus. Billberg: 81 (1820). Type-species by monotypy *Papilio linea* [Denis and Schiffermüller], Ankündung [*sic*!] eines syst. Werke Schmett. Wiener Gegend.: 160 (1775) (=*Papilio sylvestris* Poda, Ins. Mus. graec.: 79, 1761) [see **Note 97**].

= *Pelion* W. F. Kirby, List British Rhop.: [page no. not known] (1858). Type-species by monotypy *Papilio linea* [Denis and Schiffermüller], Ankündung [*sic*!] eines syst. Werke Schmett. Wiener Gegend.: 160 (1775) (=*Papilio sylvestris* Poda, Ins. Mus. graec.: 79, 1761) [see **Note 98**].

1. **lineola** (Ochsenheimer) *PAPILIO*. Schmett. Europ., 1(2): 230 (1808). TL — "Germany". Type may be in Budapest or lost [see **Note 73**]. **150.**

= *virgula* (Hübner) *PAPILIO*. Europaische Schmett.: pl. [130], figs. 660-663 [1808-1813]. TL — "Europe". Type may be in Vienna; probably lost [see **Note 9**].

= *ludoviciae* (Mabille) *PAMPHILA*. Ann. Soc. Ent. Belgique, [1883]: 118 (1883). TL — "France". ST's in MNHN.

= ab. 'pallida' Tutt. British Butts.: 136 (1896). TL — "Britain". Loc. of type not known.

Genus LXI: **Hylephila** Billberg

Enum. Ins. Mus. Billberg: 81 (1820). Type-species by designation of Scudder, Proc. American Acad. Arts Sci., 10: 193 (1875), *Papilio phyleus* Drury, Ill.

Nat. Hist., 1: index *et* 25 [1773].

= *Euthymus* Scudder, 4th Ann. Rept. Peabody Acad. Sci., [1871]: 77 (1872). Type-species by original designation *Papilio phyleus* Drury, Ill. Nat. Hist., 1: index *et* 25 [1773].

= *Andinus* Hayward, Rev. Soc. Ent. Argentina, 10: 284 (1940). Type-species by original designation *Andinus venustus* Hayward, Rev. Soc. Ent. Argentina, 10: 285 (1940).

= *Cordillana* Hayward, Rev. Mus. La Plata, (n. s.) Zool., 2: 288 (1941). Type-species as replacement name *Andinus venustus* Hayward, Rev. Soc. Ent. Argentina, 10: 285 (1940). Proposed to replace *Andinus* wrongly thought preoccupied.

1. **phyleus** (Drury) *PAPILIO.* Ill. Nat. Hist., 1: index *et* 25 [1773]. TL — "Antigua", restricted by Evans, Cat. American Hesp. . .British Mus., (4): 311 (1955). Type probably lost [see **Note 99, 100** and **101**]. **151.**

= *phareus* (Panzer) *PAPILIO.* Diurn. Abbild.: pl. 13, figs. 4, 5 (1785). TL not stated. Type probably lost.

= *carin* (Hübner) *HESPERIA.* Zutr. z. Samml. exot. Schmett., 2: 10 (1823). TL not stated. Type probably lost [see **Note 9**].

= *bucephalus* (Stephens) *PAMPHILA.* Ill. British Ins., Haustella 1: 102 (1828). TL — "Devon", certainly in error! Loc. of type not known.

= *hala* (Butler) *PAMPHILA.* Trans. Ent. Soc. London, [1870]: 504 (1870). TL — "Venezuela". HT in BM.

= ab. "pallida" Hayward. Rev. Soc. Ent. Argentina, 12: 180 (1944). TL — Tucumán, Argentina. HT in Inst. Miguel Lillo (Tucumán).

Genus LXII: **Yvretta** Hemming

Stylops, 4: 3 (1935). Type-species as replacement name *Pamphila citrus* Mabille, Le Naturaliste, (2)3: 144 (1889) (=*Hesperia subreticulata* Plötz, Stettiner Ent. Ztg., 44: 213, 1883, a subspecies of *Pamphila carus* W. H. Edwards, Canadian Ent., 15: 34, 1883).

= ‡*Chaerophon* Godman, *in* Godman and Salvin, Biol. Cent.-Americana, Lepid. Rhop., 2: 462, 474 [1900]. Type-species by original designation *Pamphila* citrus Mabille, Le Naturaliste, (2)3: 144 (1889) (=*Hesperia subreticulata* Plötz, Stettiner Ent. Ztg., 44: 213, 1883, a subspecies of *Pamphila carus* W. H. Edwards, Canadian Ent., 15: 34, 1883). Preoccupied by *Chaerophon* Dobson, Cat. Chiropt. British Mus.: 431 (1878).

1. **rhesus** (W. H. Edwards) *PAMPHILA.* Field and Forest, 3: 116 (1878). TL — "southern Colorado", restricted to road to Hardscrabble Canyon west of Pueblo by F. M. Brown and L. Miller, Trans. American Ent. Soc., 103: 274 (1977). LT in CM, designated by F. M. Brown and L. Miller, Trans. American Ent. Soc., 103: 275 (1977). **152.**

= *axius* (Plötz) *HESPERIA.* Stettiner Ent. Ztg., 44: 213 (1883). TL — "Colorado". Type may be in Munich or lost [see **Note 6**].

2. **carus** (W. H. Edwards) *PAMPHILA.* Canadian Ent., 15: 34 (1883). TL — "west Texas", restricted to Archer Co. by F. M. Brown and L. Miller, Trans. American Ent. Soc., 103: 276 (1977). LT in CM, designated by F. M. Brown and L. Miller, Trans. American Ent. Soc., 103: 276-277 (1977).

a. **c. carus** (W. H. Edwards) *PAMPHILA.* Canadian Ent., 15: 34 (1883). TL — "west Texas", restricted to Archer Co. by F. M. Brown and L. Miller, Trans. American Ent. Soc., 103: 276-277 (1977). LT in CM, designated by F. M. Brown and L. Miller, Trans. American Ent. Soc., 103: 276-277 (1977). **153a.**

b. **c. subreticulata** (Plötz) *HESPERIA.* Stettiner Ent. Ztg., 44: 213 (1883). TL not stated. Type may be in Munich or lost [see **Notes 6** and **102**]. **153b.**

= *citrus* (Mabille) *PAMPHILA*. Le Naturaliste, (2)3: 144 (1889). TL — "Honduras". Type in MNHN.

Genus LXIII: **Pseudocopaeodes** Skinner and R. C. Williams

Trans. American Ent. Soc., 49: 137 (1923). Type-species by original designation *Copaeodes eunus* W. H. Edwards, Papilio, 1: 47 (1881).

1. **eunus** (W. H. Edwards) *COPAEODES*. Papilio, 1: 47 (1881). TL — bottoms of Kern River, nr. Bakersfield, Kern Co., California. HT in CM.
   a. **e. eunus** (W. H. Edwards) *COPAEODES*. Papilio, 1: 47 (1881). TL — bottoms of Kern River, nr. Bakersfield, Kern Co., California. HT in CM. **154a.**
   b. **e. wrightii** (W. H. Edwards) *COPAEODES*. Canadian Ent., 14: 152 (1882). TL — "Mohave Desert, California". LT in CM, designated by F. M. Brown and L. Miller, Trans. American Ent. Soc., 103: 278-279 (1977) [see **Note 103**]. **154b.**

Genus LXIV: **Stinga** Evans

Cat. American Hesp. . .British Mus., (4): 300, 317 (1955). Type-species by original designation *Pamphila morrisoni* W. H. Edwards, Field and Forest, 3: 116 (1878).

1. **morrisoni** (W. H. Edwards) *PAMPHILA*. Field and Forest, 3: 116 (1878). TL — "so. Colorado", restricted to Hardscrabble Canyon, Custer Co., by F. M. Brown and L. Miller, Trans. American Ent. Soc., 103: 279 (1977). LT in CM, designated by F. M. Brown and L. Miller, Trans. American Ent. Soc., 103: 279-280 (1977). **155.**

Genus LXV: **Hesperia** Fabricius

Ent. Syst., 3: 258 (1793). Type-species by designation of Dalman, K. Svenska VetenskAkad. Handl., [1816]: 200 (1816), *Papilio comma* Linnaeus, Syst. Nat., ed. 10, 1: 484 (1758) [see **Note 61**].

= *Pamphila* Fabricius, Mag. f. Insektenk. (Illiger), 6: 287 (1807). Type-species by designation of Westwood, Intro. Class. Ins., 2 Syn.: 88 (1840). *Papilio comma* Linnaeus, Syst. Nat., ed. 10, 1: 484 (1758).

= ‡*Symmachia* Sodovskii, Bull. Soc. Imp. Nat. Moscou, [1837]: 82 (1837). Type-species as replacement name *Papilio comma* Linnaeus, Syst. Nat., ed. 10, 1: 484 (1758). Preoccupied by *Symmachia* Hübner, Verz. bekannt. Schmett., (2): 26 [1819] [see **Note 104**].

= *Ocytes* Scudder, 4th Ann. Rept. Peabody Acad. Sci., [1871]: 76 (1872). Type-species by original designation *Hesperia metea* Scudder, Proc. Essex Inst., 3: 177 (1863).

= *Anthomaster* Scudder, 4th Ann. Rept. Peabody Acad. Sci., [1871]: 78 (1872). Type-species by original designation *Hesperia leonardus* Harris, Rept. Ins. Inj. Veg., Flint's ed.: 314 (1862).

= *Urbicola* Tutt, Nat. Hist. British Butts., 1: 84 (1905). Type-species by original desigantion *Papilio comma* Linnaeus, Syst. Nat., ed. 10, 1: 484 (1758) [see **Note 105**].

1. **uncas** W. H. Edwards. Proc. Ent. Soc. Philadelphia, 2: 19 (1863). TL — "Philadelphia, Pennsylvania", corrected to vic. Denver, Colorado, by F. M. Brown and L. Miller, Trans. American Ent. Soc., 103: 298-299 (1977). NT in CM, designated by F. M. Brown and L. Miller, Trans. American Ent. Soc., 103: 298-299 (1977) [see **Note 106**].
   a. **u. uncas** W. H. Edwards. Proc. Ent. Soc. Philadelphia, 2: 19 (1863). TL — **156a.**

"Philadelphia, Pennsylvania", corrected to vic. Denver, Colorado, by F. M. Brown and L. Miller, Trans. American Ent. Soc., 103: 298-299 (1977). NT in CM, designated by F. M. Brown and L. Miller, Trans. American Ent. Soc., 103: 298-299 (1977) [see **Note 106**].

= *ridingsii* Reakirt. Proc. Ent. Soc. Philadelphia, 6: 151 (1866). TL — "Rocky Mountains, Colorado Terr." HT in FMNH.

b. **u. lasus** (W. H. Edwards) *PAMPHILA*. Papilio, 4: 54 (1884). TL — "South Arizona", tentatively restricted to nr. Tucson by F. M. Brown and L. Miller, Trans. American Ents. Soc., 103: 299-300 (1977). HT in USNM. **156b.**

c. **u. macswaini** MacNeill. Univ. California Publ. Ent., 35: 85-87 (1964). TL — Blancos Corral, White Mtns., Mono Co., California. HT in CAS. **156c.**

2. **juba** (Scudder) *PAMPHILA*. 4th Ann. Rept. Peabody Acad. Sci., [1871]: 77 (1872). TL — "California, Nevada". ST's should be in MCZ [see **Note 107**]. **157.**

= ab. "ogdenensis" (Holland) *ERYNNIS*. Butt. Book, rev. ed.: 372 (1931). TL — Ogden, Utah. HT in CM.

*3. **comma** (Linnaeus) *PAPILIO*. Syst. Nat., ed. 10, 1: 484 (1758). TL — "Sweden", so restricted by Verity, Farfalle diurn. d'Italia, 1: 114 (1940). Loc. of type not known [see **Note 75**].

a. **c. manitoba** (Scudder) *PAMPHILA*. Mem. Boston Soc. Nat. Hist., 2: 351 (1874). TL — "Colorado; Canada". ST's should be in MCZ [see **Note 108**]. **158a.**

b. **c. assiniboia** (Lyman) *PAMPHILA*. Canadian Ent., 24: 57 (1892). TL — Regina, [Saskatchewan], Canada. HT in Lyman Ent. Mus., McGill Univ. **158b.**

c. **c. laurentina** (Lyman) *PAMPHILA*. Canadian Ent., 24: 59 (1892). TL — "Lower St. Lawrence R., Canada". HT in Lyman Ent. Mus., McGill Univ. **158c.**

d. **c. borealis** Lindsey. Denison Univ. Bull., J. Sci. Labs., 37: 19 (1942). TL — Nain, Labrador. HT in Cornell Univ. **158d.**

e. **c. harpalus** (W. H. Edwards) *PAMPHILA*. Trans. American Ent. Soc., 9: 3 (1881). TL — "Nevada", restricted to vic. Carson City, Ormsby Co., by F. M. Brown and L. Miller, Trans. American Ent. Soc., 103: 288--290 (1977). LT in CM, designated by F. M. Brown and L. Miller, Trans. American Ent. Soc., 103: 288-290 (1977) [see **Note 109**]. **158e.**

= *cabelus* (W. H. Edwards) *PAMPHILA*. Trans. American Ent. Soc., 9: 4 (1881). TL — "Nevada", restricted to vic. Carson City, Ormsby Co., by F. M. Brown and L. Miller, Trans. American Ent. Soc., 103: 290-291 (1977). LT in CM, designated by F. M. Brown and L. Miller, Trans. American Ent. Soc., 103: 290-291 (1977).

= *idaho* (W. H. Edwards) [*PAMPHILA*]. Canadian Ent., 15: 148 (1883). TL — "Oregon, Washington, California", restricted to vic. Lake Tahoe, Placer Co., California, by F. M. Brown and L. Miller, Trans. American Ent. Soc., 103: 293-295 (1977). LT in CM, designated by F. M. Brown and L. Miller, Trans. American Ent. Soc., 103: 295 (1977).

f. **c. yosemite** Leussler. Ent. News, 44: 169 (1933). TL — nr. Yosemite, California. HT in Ohio State Univ. [see **Note 110**]. **158f.**

g. **c. leussleri** Lindsey. Ann. Ent. Soc. America, 33: 373, 375 (1940). TL — Warner Hot Spgs., San Diego Co., California. HT probably in Cornell Univ. **158g.**

h. **c. tildeni** H. A. Freeman. Lepid. News, 9: 196-198 [1956]. TL — Cherry Flat Reservoir, Santa Clara Co., California. HT in AMNH. **158h.**

i. **c. dodgei** (Bell) *PAMPHILA*. J. New York Ent. Soc., 35: 175 (1927). TL — Santa Cruz, California. HT in AMNH. **158i.**

j. **c. oregonia** (W. H. Edwards) [*PAMPHILA*]. Canadian Ent., 15: 150 (1883). TL — "California, Nevada", restricted to Trinity Co., California, by F. M. Brown and L. Miller, Trans. American Ent. Soc., 103: 291-293 (1977). LT in CM, designated by F. M. Brown and L. Miller, Trans. American Ent. Soc., 103: 293 (1977) [see **Note 111, 112**]. **158j.**

k. **c. hulbirti** Lindsey. Ann. Ent. Soc. America, 32: 171, 172 (1939). TL — Hurricane Hills, Olympic Mtns., Washington. HT in CM. **158k.**

l. c. **ochracea** Lindsey. Ann. Ent. Soc. America, 34: 770-772 (1941). TL — Platte Canyon, Jefferson Co., Colorado. HT in AMNH [see **Note 113**]. **158l.**

m. c. **colorado** (Scudder) *PAMPHILA*. Mem. Boston Soc. Nat. Hist., 2: 349 (1874). TL — "Colorado, Arizona". ST's may be in MCZ [see **Note 114**]. **158m.**

n. c. **susanae** L. Miller. Ent. News, 73: 85-90 (1962). TL — Horseshoe Cienega, White Mtns., Apache Co., Arizona. HT in CM. **158n.**

4. **woodgatei** (R. C. Williams) *PAMPHILA*. Ent. News, 25: 266 (1914). TL — Jemez Mtns., New Mexico. HT in CM [see **Note 115**]. **159.**

5. **ottoe** W. H. Edwards. Proc. Ent. Soc. Philadelphia, 6: 207 (1866). TL — "Kansas". HT in CM. **160.**

6. **leonardus** Harris. Rept. Ins. Inj. Veg., 3rd ed.: 314 (1862). TL — "Massachusetts". Type may be in MCZ, but probably is lost. **161.**

= fm. "stallingsi" H. A. Freeman. Bull. Brooklyn Ent. Soc., 38: 153-154 (1943). TL — Blendon, Franklin Co., Ohio. HT in AMNH.

7. **pawnee** Dodge. Canadian Ent., 6: 44 (1874). TL — Glencoe, Nebraska. Loc. of type not known (CAS?). **162.**

= *montana* (Skinner) *PAMPHILA*. Ent. News, 22: 413 (1911). TL — "Colorado", restricted to Chaffee Co., Colo., 7500 ft., by Gillham and Ehrlich, Trans. American Ent. Soc., 80: 110 (1954). HT in CM.

= *ogallala* (Leussler) *PAMPHILA*. Ent. News, 32: 206 (1921). TL — "eastern Nebraska and western Iowa". ST's should be in Ohio State Univ.

8. **pahaska** (Leussler) *PAMPHILA*. Ent. News, 49: 5 (1938). TL — canyon region of Sioux Co., nr. Harrison, Nebraska. HT in Ohio State Univ.

a. p. **pahaska** (Leussler) *PAMPHILA*. Ent. News, 49: 5 (1938). TL — canyon region of Sioux Co., nr. Harrison, Nebraska. HT in Ohio State Univ. **163a.**

b. p. **williamsi** Lindsey. Ann. Ent. Soc. America, 33: 375, 376 (1940). TL — Baboquivari Mtns., Pima Co., Arizona. HT in CM [see **Note 116**]. **163b.**

c. p. **martini** MacNeill. Univ. California Publ. Ent., 35: 148-151 (1964). TL — 4.5 mi. SE Ivanpah, New York Mtns., San Bernardino Co., California. HT in CAS. **163c.**

9. **columbia** (Scudder) *PAMPHILA*. 4th Ann. Rept. Peabody Acad. Sci., [1871]: 77 (1872). TL — "California". HT in MCZ [see **Note 117**]. **164.**

= *california* (W. G. Wright) *PAMPHILA*. Butt. W. Coast: 241 (1905). TL — "southern California". LT in CAS, designated by MacNeill, Univ. California Publ. Ent., 35: 142 (1964).

= *erynnioides* (Dyar) *THYMELICUS*. J. New York Ent. Soc., 15: 50 (1907). TL — Monterey Co., California. HT in USNM.

10. **metea** Scudder. Proc. Essex Inst., 3: 177 (1864). TL — "Connecticut". Type should be in MCZ.

a. m. **metea** Scudder. Proc. Essex Inst., 3: 177 (1864). TL — "Connecticut". Type should be in MCZ. **165a.**

b. m. **licinus** (W. H. Edwards) *PAMPHILA*. Trans. American Ent. Soc., 3: 275 (1871). TL — nr. Waco, Texas. HT in CM. **165b.**

= *horus* (W. H. Edwards) *PAMPHILA*. Trans. American Ent. Soc., 3: 277 (1871). TL — Dallas, Texas. HT in MCZ.

= *belfragei* H. A. Freeman. Field and Lab., 12: 20 (1944). TL — Cedar Hills, Dallas Co., Texas. HT may be in AMNH.

11. **viridis** (W. H. Edwards) *PAMPHILA*. Canadian Ent., 15: 147 (1883). TL — Las Vegas, New Mexico. HT in Kansas Univ. **166.**

12. **attalus** (W. H. Edwards) *PAMPHILA*. Trans. American Ent. Soc., 3: 276 (1871). TL — Waco, Texas. LT in CM, designated by F. M. Brown and L. Miller, Trans. American Ent. Soc., 103: 281-282 (1977) [see **Note 118**].

a. a. **attalus** (W. H. Edwards) *PAMPHILA*. Trans. American Ent. Soc., 3: 276 (1871). TL — Waco, Texas. LT in CM, designated by F. M. Brown and L. Miller, Trans. American Ent. Soc., 103: 281-282 (1977) [see **Note 118**]. **167a.**

= *seminole* (Scudder) *OCYTES*. 4th Ann. Rept. Peabody Acad. Sci., [1871]:

76 (1872). TL — "Florida to Texas". ST's should be in MCZ.
= *quaiapen* (Scudder) *ERYNNIS*. Butt. E. U. S. and Canada, 2: 1655 (1889). TL not given. Loc. of type not known [see **Note 27**].

b. **a. slossonae** (Skinner) *PAMPHILA*. Ent. Americana, 6: 138 (1890). TL — "Florida". HT in CM. **167b.**

13. **meskei** (W. H. Edwards) *PAMPHILA*. Canadian Ent., 9: 58 (1877). TL — Bastrop Co., Texas. HT in CM.

a. **m. meskei** (W. H. Edwards) *PAMPHILA*. Canadian Ent., 9: 58 (1877). TL — Bastrop Co., Texas. HT in CM. **168a.**

b. **m. straton** (W. H. Edwards) *PAMPHILA*. Papilio, 1: 78 (1881). TL — "Indian River, Florida". LT in CM, designated by F. M. Brown and L. Miller, Trans. American Ent. Soc., 103: 285 (1977). **168b.**

14. **dacotae** (Skinner) *PAMPHILA*. Ent. News, 22: 412 (1911). TL — Volga, South Dakota and Grinnell, Iowa. ST's (one labelled as HT) in CM. **169.**

15. **lindseyi** (Holland) *ERYNNIS*. Ann. Carnegie Mus., 19: 158 (1930). TL — Nellie and Ukiah, California. ST's (one labelled as HT) in CM. **170.**

16. **sassacus** Harris. Rept. Ins. Inj. Veg., 3rd ed.: 315 (1862). TL — "Massachusetts". Loc. of type not known.

a. **s. sassacus** Harris. Rept. Ins. Inj. Veg., 3rd ed.: 315 (1862). TL — "Massachusetts". Loc. of type not known. **171a.**

b. **s. manitoboides** (Fletcher) *PAMPHILA*. Rept. Ent. Soc. Ontario, [1888]: 85 (1889). TL — "Nipegon" and Sudbury, Ontario. ST (considered HT) in USNM. **171b.**

17. **miriamae** MacNeill. Wasmann J. Biol., 17: 90-94 (1959). TL — nr. Mono Pass, NW Inyo Co., California. HT in CAS. **172.**

18. **nevada** (Scudder) *PAMPHIILA*. Mem. Boston Soc. Nat. Hist., 2: 347 (1874). TL — "Colorado, Oregon". LT in MCZ, designated by Barnes and McDunnough, Contrib. Nat. Hist. Lepid. N. America, 3: 126 (1916) [see **Note 119**]. **173.**

Genus LXVI: **Polites** Scudder

4th Ann. Rept. Peabody Acad. Sci., [1871]: 78 (1872). Type-species by original designation *Hesperia peckius* W. Kirby, *in* Richardson, Faun. Bor.-Americana, 2[4]: 300 (1837) (=*?Papilio coras* Cramer, Uitl. Kapellen, 1: 51, [1775]).

= *Hedone* Scudder, 4th Ann. Rept. Peabody Acad. Sci., [1871]: 79 (1872). Type-species by original designation *Hesperia brettus* Boisduval and Leconte, Hist. Lepid. Amerique Sept.: pl. 75 [1834] (=*Thymelicus vibex* Geyer, *in* Hübner, Zutr. z. Samml. exot. Schmett., 4: 22 [1832]).

= *Limochores* Scudder, 4th Ann. Rept. Peabody Acad. Sci., [1871]: 80 (1872). Type-species by original designation *Hesperia manataaqua* Scudder, Proc. Essex Inst., 3: 175 (1863) (=*Hesperia origenes* Fabricius, Ent. Syst., 3: 328, 1793).

= *Pyrrhosidia* Scudder, Mem. Boston Soc. Nat. Hist., 2: 346, footnote (1874). Type-species by original designation *Hesperia mystic* W. H. Edwards, Proc. Ent. Soc. Philadelphia, 2: 15 (1863).

1. **coras** (Cramer) *PAPILIO*. Uitl. Kapellen, 1: 51 [1775]. TL — "Surinam", certainly in error. Type probably lost [see **Notes 7, 120** and **121**]. **174.**

= *peckius* (W. Kirby) *HESPERIA*. *in* Richardson, Faun. Bor.-Americana, 2[4]: 300 (1837). TL — "North America". Type apparently lost.

= *wamsutta* (Harris) *HESPERIA*. Rept. Ins. Inj. Veg., 3rd ed.: 318 (1862). TL — "Massachusetts". Type apparently lost.

2. **sabuleti** (Boisduval) *HESPERIA*. Ann. Soc. Ent. France, (2)10: 316 (1852). TL — "California". Type may be in USNM or MNHN [see **Note 22**].

a. **s. sabuleti** (Boisduval) *HESPERIA*. Ann. Soc. Ent. France, (2)10: 316 (1852). TL — "California". Type may be in USNM or MNHN [see **Note 22**]. **175a.**

= *genoa* (Plötz) *HESPERIA*. Stettiner Ent. Ztg., 44: 207 (1883). TL — "Nevada". Type may be in Munich, Berlin or lost [see **Note 6**].

b. s. **tecumseh** (Grinnell) *PAMPHILA*. Ent. News, 14: 11 (1903). TL — Little Crabtree Meadow, nr. Mt. Whitney, California. Loc. of type not known (CAS?). **175b.**

= *chispa* (W. G. Wright) *PAMPHILA*. Butt. W. Coast: 247 (1905). TL — "Sierra Nevada Mtns. of cent. California". LT in CAS, designated by Tilden, Occ. Pap. California Acad. Sci., (118): 40 (1975).

c. s. **chusca** (W. H. Edwards) *HESPERIA*. Trans. American Ent. Soc., 4: 346 (1873). TL — "Arizona". HT in CM. **175c.**

= *comstocki* Gunder. Ent. News, 36: 7 (1925). TL — Imperial Valley, California. HT in AMNH.

3. **mardon** (W. H. Edwards) *PAMPHILA*. Papilio, 1: 47 (1881). TL — small prairies nr. Puget Sound, Washington. LT in CM, designated by F. M. Brown and L. Miller, in press [see **Note 122**]. **176.**

4. **draco** (W. H. Edwards) *PAMPHILA*. Trans. American Ent. Soc., 3: 274 (1871). TL — "Colorado". LT in CM, designated by F. M. Brown and L. Miller, in press [see **Note 122**]. **177.**

5. **baracoa** (Lucas) *HESPERIA*. *in* Sagra, Hist. Cuba, 7: 650 (1857). TL — "Cuba". HT in MNHN. **178.**

= *amadis* (Herrich-Schäffer) *PAMPHILA*. CorrespBl. zool.-min. Ver. Regensburg, 17: 412 (1863). TL — "Cuba". HT in ANSP.

= *myus* (French) *PAMPHILA*. Canadian Ent., 17: 33 (1885). TL — "Florida". Loc. of type not known.

6. **themistocles** (Latreille) *HESPERIA*. Enc. Meth., 9: 723 [1824]. TL — "Amerique meridionale". Type probably in MNHN [see **Note 123**]. **179.**

= ‡(?)*taumas* (Fabricius) *PAPILIO*. Mant. Ins., 2: 84 (1787), emended(?) to "*thaumas*" by Fabricius, Ent. Syst., 3: 327 (1793). TL — "America boreali", a specimen from the SE U. S. Single Fabrician specimen in Kiel probably the type. Preoccupied(?) by *Papilio thaumas* Hufnagel, Berliner Mag., 2: 62 (1766) [see **Note 124**].

= ‡*phocion* (Fabricius) *HESPERIA*. Ent. Syst., Suppl.: 431 (1798). TL — "America meridionale" [New York or New England]. Single Fabrician specimen in Kiel probably the type. Preoccupied by *Hesperia phocion* Fabricius, Ent. Syst., 3: 335 (1793).

= *cernes* (Boisduval and Leconte) *HESPERIA*. Hist. Lepid. Amerique Sept.: pl. 76, figs. 1, 2 [1834]. TL — "Georgia". Type probably never existed; name based on Abbot drawing.

= *ahaton* (Harris) *HESPERIA*. Rept. Ins. Inj. Veg., 3rd ed.: 316 (1862). TL — "Massachusetts". Type probably lost.

7. **origenes** (Fabricius) *HESPERIA*. Ent. Syst., 3: 328 (1793). TL — "in Indiis", probably New York. Type probably lost [see **Notes 125, 126** and **127**].

a. **o. origenes** (Fabricius) *HESPERIA*. Ent. Syst., 3: 328 (1793). TL — "in Indiis", probably New York. Type probably lost [see **Notes 125, 126,** and **127**]. **180a.**

= *manataaqua* (Scudder) *HESPERIA*. Proc. Essex Inst., 3: 175 (1864). TL — "New England". Type should be in MCZ.

b. **o. rhena** (W. H. Edwards) *PAMPHILA*. Field and Forest, 3: 115 (1878). TL — "southern Colorado". HT in CM. **180b.**

= *alcina* (Skinner) *PAMPHILA*. Ent. News, 4: 212 (1893). TL — "Colorado". HT in CM.

8. **mystic** (W. H. Edwards) *HESPERIA*. Proc. Acad. Nat. Sci. Philadelphia, 15: 15-16 (1863). TL — White Mtns., New Hampshire. NT in CM, designated by F. M. Brown and L. Miller, in press [see **Notes 122** and **128**].

a. **m. mystic** (W. H. Edwards) *HESPERIA*. Proc. Acad. Nat. Sci. Phila- **181a.**

delphia, 15: 15-16 (1863). TL — White Mtns., New Hampshire. NT in CM, designated by F. M. Brown and L. Miller, in press [see **Notes 122** and **128**].

= ab. "weetamoo" (Scudder) *THYMELICUS*. Butt. E. U. S. and Canada, 2: 1707 (1889). TL not stated. Type was from Lintner and may be in New York State Mus., Albany.

= ab. "nubs" (Scudder) *THYMELICUS*. Butt. E. U. S. and Canada, 2: 1707 (1889). TL not stated. Loc. of type not known.

b. **m. dacotah** (W. H. Edwards) *HESPERIA*. Trans. American Ent. Soc., 3: 277 (1871). TL — "Colorado", but stated to be nr. Georgetown by T. L. Mead's letters. HT in CM. **181b.**

= *pallida* (Skinner) *PAMPHILA*. Ent. News, 22: 412 (1911). TL — Volga, South Dakota. HT in CM.

9. **sonora** (Scudder) *OCHLODES*. 4th Ann. Rept. Peabody Acad. Sci., [1871]: 78 (1872). TL — "Sierra Nevada, California". Type should be in MCZ [see **Notes 129, 130**].

a. **s. sonora** (Scudder) *OCHLODES*. 4th Ann. Rept. Peabody Acad. Sci., [1871]: 78 (1872). TL — "Sierra Nevada, California". Type should be in MCZ [see **Note 129**]. **182a.**

b. **s. siris** (W. H. Edwards) *PAMPHILA*. Papilio, 1: 47 (1881). TL — small prairies nr. Puget Sound, Washington. LT in CM, designated by F. M. Brown and L. Miller, in press [see **Note 122**]. **182b.**

c. **s. utahensis** (Skinner) *PAMPHILA*. Ent. News, 22: 413 (1911). TL — Park City, Utah. ST's (one labelled as HT) in CM. **182c.**

10. **vibex** (Geyer) *THYMELICUS. in* Hübner, Zutr. z. Samml. exot. Schmett., 4: 22 [1832].. TL — "West Indies", but certainly on the mainland. Type probably lost [see **Note 11**].

a. **v. vibex** (Geyer) *THYMELICUS. in* Hübner, Zutr. z. Samml. exot. Schmett., 4: 22 [1832]. TL — "West Indies", but certainly on the mainland. Type probably lost [see **Note 11**]. **183a.**

= *brettus* (Boisduval and Leconte) *HESPERIA*. Hist. Lepid. Amerique Sept.: pl. 75, figs. 3-5 [1834]. TL — "Georgia". Type probably did not exist; name based on Abbot drawing.

= *wingina* (Scudder) *HESPERIA*. Proc. Essex Inst., 3: 173 (1864). TL — "southern New England". Type may be in MCZ.

= *osyka* (W. H. Edwards) *HESPERIA*. Trans. American Ent. Soc., 1: 288 (1867, in part, ♀ only). TL — vic. New Orleans, Louisiana. LT in CM, designated by F. M. Brown and L. Miller, in press [see **Note 122**].

= *morganta* (Plötz) *HESPERIA*. Stettiner Ent. Ztg., 44: 203 (1883). TL — "South America", in error. Type may be in Munich or lost [see **Notes 6, 131**].

= *unna* (Plötz) *HESPERIA*. Stettiner Ent. Ztg., 44: 204 (1883). TL — Philadelphia, Pennsylvania. Type may be in Munich or lost [see **Note 6**].

b. **v. praeceps** (Scudder) *HEDONE*. 4th Ann. Rept. Peabody Acad. Sci., [1871]: 79 (1872). TL — Tehuantepec, Mexico. Type should be in MCZ. **183b.**

= *lumida* (Möschler) *PAMPHILA*. Verh. zool.-bot. Ges. Wien, 28: 217 (1878). TL — "Colombia". Type may be in ZMHU.

= *golenia* (Möschler) *PAMPHILA*. Verh. zool.-bot. Ges. Wien, 28: 218 (1878). TL — "Colombia". Type may be in ZMHU [see **Note 132**].

= *?zenckei* (Plötz) *HESPERIA*. Stettiner Ent. Ztg., 44: 196 (1883). TL — "Mexico". Type may be in Munich or lost [see **Note 6**].

= *hypozona* (Dyar) *LEREMA*. Proc. U. S. Natl. Mus., 54: 339 (1919). TL — "Mexico". HT in USNM.

c. **v. brettoides** (W. H. Edwards) *PAMPHILA*. Papilio, 3: 71 (1883). TL **183c.**

— "west Texas", restricted to vic. Archer Co. by F. M. Brown and L. Miller, in press. LT in CM, designated by F. M. Brown and L. Miller, in press [see **Note 122**].

= *clara* (Plötz) *HESPERIA*. Stettiner Ent. Ztg., 44: 203 (1883). TL — "California". Type may be in Munich or lost [see **Note 6**].

= *stigma* (Skinner) *PAMPHILA*. Canadian Ent., 28: 188 (1896). TL — southern New Mexico. HT in CM.

Genus LXVII: **Wallengrenia** Berg

An. Mus. Nac. Buenos Aires, 5: 254 (1897). Type-species by original designation *Hesperia premnas* Wallengren, Wiener Ent. Monats., 4: 38 (1860).

= *Catia* Godman, *in* Godman and Salvin, Biol. Cent.-Americana, Lepid. Rhop., 2: 462, 481 (1900). Type-species by original designation *Hesperia drury* Latreille, Enc. Meth., 9: 767 [1824] [see **Note 12**].

1. **otho** (J. E. Smith) *PAPILIO. in* Abbot and Smith, Nat. Hist. Rarer Lepid. Ins. Georgia, 1: 31 (1797). TL — "Georgia". Type did not exist; name based on Abbot figure. **184.**

= *pustula* (Geyer) *THYMELICUS. in* Hübner, Zutr. z. Samml. exot. Schmett., 4: 11 [1832]. TL — "Georgia". Type probably lost [see **Note 11**].

2. **egeremet** (Scudder) *HESPERIA*. Proc. Essex Inst., 3: 174 (1864). TL — "Massachusetts". Type may be in MCZ [see **Note 133**]. **185.**

= *ursa* (Worthington) *PAMPHILA*. Canadian Ent., 12: 49 (1880). TL — "Indiana". Loc. of type not known.

= *cinna* (Plötz) *HESPERIA*. Stettiner Ent. Ztg., 44: 58 (1883). TL — "Union" (U. S. A.). Type may be in Munich or lost [see **Note 6**].

Genus LXVIII: **Pompeius** Evans

Cat. American Hesp. . .British Mus., (4): 301, 335 (1955). Type-species by original designation *Hesperia pompeius* Latreille, Enc. Meth., 9: 765 [1824].

1. **verna** (W. H. Edwards) *PAMPHILA*. Proc. Acad. Nat. Sci. Philadelphia, 14: 57 (1862). TL — "Illinois", restricted to Perryton Twp., Mercer Co., by F. M. Brown and L. Miller, in press. NT in CM, designated by F. M. Brown and L. Miller, in press [see **Note 122**]. **186.**

= *pottawattomie* (Worthington) *PAMPHILA*. Canadian Ent., 12: 50 (1880). TL — Cook and Lake Cos., Illinois. ST (possibly HT or LT) in USNM.

= *vetulina* (Plötz) *HESPERIA*. Stettiner Ent. Ztg., 44: 58 (1883). TL not stated. Type may be in Munich or lost [see **Note 6**].

= *sigida* (Mabille) *TELESTO*. Ann. Soc. Ent. Belgique, 35 Bull.: 177 (1891). TL — "Australia", in error. HT in BM.

= *sequoyah (H. A. Freeman) POLITES*. Ent. News, 53: 104 (1942). TL — "Arkansas". HT in AMNH.

Genus LXIX: **Atalopedes** Scudder

4th Ann. Rept. Peabody Acad. Sci., [1871]: 78 (1872). Type-species by original designation *Hesperia huron* W. H. Edwards, Proc. Ent. Soc. Philadelphia, 2: 16 (1863) (=*Hesperia campestris* Boisduval, Ann. Soc. Ent. France (2)10: 316, 1852, subspecies).

= *Pansydia* Scudder, 4th Ann. Rept. Peabody Acad. Sci., [1871]: 81 (1872). Type-species by original designation *Hesperia mesogramma* Latreille, Enc. Meth., 9: 765 [1824].

1. **campestris** (Boisduval) *HESPERIA*. Ann. Soc. Ent. France, (2)10: 316 (1852). TL — "California". Type may be in USNM or MNHN [see **Note 22**].
   a. c. **campestris** (Boisduval) *HESPERIA*. Ann. Soc. Ent. France, (2)10: 316 (1852). TL — "California". Type may be in USNM or MNHN [see **Note 22**]. **187a.**
      = *kedema* (Butler) *PAMPHILA*. Trans. Ent. Soc. London, [1870]: 504 (1870). TL not stated. HT in BMNH.
      = *augustus* (Plötz) *HESPERIA*. Stettiner Ent. Ztg., 44: 213 (1883). TL — "Brasil". Type may be in Munich or lost [see **Note 6**].
      = *amphissa* (Plötz) *HESPERIA*. Stettiner Ent. Ztg., 44: 221 (1883). TL — "Venezuela". Type may be in Munich or lost [see **Note 6**].
   b. c. **huron** (W. H. Edwards) HESPERIA. Proc. Ent. Soc. Philadelphia, 2: 16 (1863). TL — "Illinois, Georgia, Texas, Washington, D. C., restricted to Evanston, Illinois, by F. M. Brown and L. Miller, in press. NT in CM, designated by F. M. Brown and L. Miller, in press [see **Note 122**]. **187b.**

Genus LXX: **Atrytone** Scudder

4th Ann. Rept. Peabody Acad. Sci., (1871): 77 (1872). Type-species by original designation *Hesperia iowa* Scudder, Trans. Chicago Acad. Sci., 1: 336 (1869) (=*Hesperia arogos* Boisduval and Leconte, Hist. Lepid. Amerique Sept.: pl. 76, figs. 3-5, [1834], subspecies).
   = *Anatrytone* Dyar, J. New York Ent. Soc., 13: 140 (1905). Type-species by original designation *Hesperia delaware* W. H. Edwards, Proc. Ent. Soc. Philadelphia, 2: 19 (1863). (= *Hesperia logan* W. H. Edwards, Proc. Ent. Soc. Philadelphia, 2: 18; 1863).

1. **arogos** (Boisduval and Leconte) *HESPERIA*. Hist. Lepid. Amerique Sept.: pl. 76, fig. 3-5 [1834]. TL — "North America", but certainly Georgia. Type probably never existed; name based on Abbot drawing [see **Note 135**].
   a. **a. arogos** (Boisduval and Leconte) *HESPERIA*. Hist. Lepid. Amerique Sept.: pl. 76, figs. 3-5 [1834]. TL — "North America", but certainly Georgia. Type probably never existed; name based on Abbot drawing [see **Note 135**]. **188a.**
      = *mutius* (Plötz) *HESPERIA*. Stettiner Ent. Ztg., 44: 199 (1883). TL — "Georgia". Type may be in Munich or lost [see **Note 6**].
   b. **a. iowa** (Scudder) *HESPERIA*. Trans. Chicago Acad. Sci., 1: 336 (1869). TL — Denison and nr. New Jefferson, Iowa. ST's may be in MCZ. **188b.**
2. **logan** (W. H. Edwards) *HESPERIA*. Proc. Ent. Soc. Philadelphia, 2: 18 (1863). TL — Lansing, Michigan. NT in CM, designated by F. M. Brown and L. Miller, in press [see **Notes 122** and **136**].
   a. **l. logan** (W. H. Edwards) *HESPERIA*. Proc. Ent. Soc. Philadelphia, 2: 18 (1863). TL — Lansing, Michigan. NT in CM, designated by F. M. Brown and L. Miller, in press [see **Notes 122** and **136**]. **189a.**
      = *delaware* (W. H. Edwards) *HESPERIA*. Proc. Ent. Soc. Philadelphia, 2: 19 (1863). TL — Philadelphia, Pennsylvania. NT in CM, designated by F. M. Brown and L. Miller, in press [see **Note 122**].
   b. **l. lagus** (W. H. Edwards) *PAMPHILA*. Trans. American Ent. Soc., 9: 5 (1881). TL — Oak Creek Canyon, Colorado. LT in CM, designated by F. M. Brown and L. Miller, in press [see **Note 122**]. **189b.**

Genus LXXI: **Problema** Skinner and R. C. Williams

Trans. American Ent. Soc., 50: 62 (1924). Type-species by original designation *Pamphila byssus* W. H. Edwards, Canadian Ent., 12: 224 (1880).

1. **byssus** (W. H. Edwards) *PAMPHILA*. Canadian Ent., 12: 224 (1880). TL — "Indian River, Florida". LT in CM, designated by F. M. Brown and L.

Miller, in press [see **Note 122**].

a. **b. byssus** (W. H. Edwards) *PAMPHILA*. Canadian Ent., 12: 224 (1880). TL — "Indian River, Florida". LT in CM, designated by F. M. Brown and L. Miller, in press [see **Note 122**]. **190a.**

b. **b. kumskaka** (Scudder) *ATRYTONE*. Canadian Ent., 19: 45 (1887). TL — Denison, Iowa. Type should be in MCZ. **190b.**

2. **bulenta** (Boisduval and Leconte) *HESPERIA*. Hist. Lepid. Amerique Sept.: pl. 67, figs. 1-5 [1834]. TL — "North America", but surely Georgia. Type did not exist; name based on Abbot drawing. **191.**

Genus LXXII: **Ochlodes** Scudder

4th Ann. Rept. Peabody Acad. Sci., [1871]: 78 (1872). Type-species by original designation *Hesperia nemorum* Boisduval, Ann. Soc. Ent. France, (2)10: 314 (1852) (=*Hesperia agricola* Boisduval, Ann. Soc. Ent. France, (2)10: 314 1852, subspecies).

1. **sylvanoides** (Boisduval) *HESPERIA*. Ann. Soc. Ent. France, (2)10: 313 (1852). TL — "California". HT in BM [see **Note 137**].

a. **s. sylvanoides** (Boisduval) *HESPERIA*. Ann. Soc. Ent. France, (2)10: 313 (1852). TL — "California". HT in BM [see **Notes 137**]. **192a.**

= *francisca* (Plötz) *HESPERIA*. Stettiner Ent. Ztg., 44: 220 (1883). TL — "California, Mexico". Type may be in Munich or lost [see **Note 6**].

b. **s. pratincola** (Boisduval) *HESPERIA*. Ann. Soc. Ent. France, (2)10: 315 (1852, ♀ only). TL — "California". HT in BM [see **Note 138**]. **192b.**

c. **s. napa** (W. H. Edwards) *HESPERIA*. Proc. Ent. Soc. Philadelphia, 4: 202 (1865). TL — Empire City, Colorado. NT in CM, designated by F. M. Brown and L. Miller, in press [see **Notes 122, 139** and **140**]. **192c.**

2. **agricola** (Boisduval) *HESPERIA*. Ann. Soc. Ent. France, (2)10: 314 (1852) TL — "California". HT in BM.

a. **a. agricola** (Boisduval) *HESPERIA*. Ann. Soc. Ent. France, (2)10: 314 (1852). TL — "California". HT in BM. **193a.**

= *yreka* (W. H. Edwards) *HESPERIA*. Proc. Ent. Soc. Philadelphia, 6: 207 (1866). TL — San Francisco, California. HT in CM.

= *milo* (W. H. Edwards) *PAMPHILA*. Canadian Ent., 15: 34 (1883). TL — Mt. Hood, Oregon. HT in CM.

b. **a. verus** (W. H. Edwards) *PAMPHILA*. Trans. American Ent. Soc., 9: 4 (1881). TL — Havilah, California". LT in CM, designated by Tilden, Ent. News, 72: 40 (1961). [see **Note 141**]. **193b.**

c. **a. nemorum** (Boisduval) *HESPERIA*. Ann. Soc. Ent. France, (2)10: 314 (1852). TL — "California". HT in BM [see **Notes 142, 143**]. **193c.**

3. **snowi** (W. H. Edwards) *PAMPHILA*. Canadian Ent., 9: 29 (1877). TL — Ute Pass, Colorado. LT in Kansas Univ., designated by F. M. Brown and L. Miller, in press [see **Note 122**]. **194.**

4. **yuma** (W. H. Edwards) *HESPERIA*. Trans. American Ent. Soc., 4: 346 (1873). TL — "Arizona", restricted to Darwin Falls, Inyo Co., California, by F. M. Brown, Lepid. News, 11: 153-154 (1958 "1957"). NT in CM, designated by Tilden, Ent. News, 72; 42-43 (1961). **195.**

= *scudderi* (Skinner) *PAMPHILA*. Ent. News, 10: 111 (1899). TL — White River, Colorado. ST's (one labelled as HT) in CM.

Genus LXXIII: **Poanes** Scudder

4th Ann. Rept. Peabody Acad. Sci., [1871]: 76 (1872). Type-species by original designation *Hesperia massasoit* Scudder, Proc. Essex Inst., 3: 171 (1863).

= *Phycanassa* Scudder, 4th Ann. Rept. Peabody Acad. Sci., [1871]: 77

(1872). Type-species by original designation *Hesperia viator* W. H. Edwards, Proc. Ent. Soc. Philadelphia, 4: 202 (1865).

= ‡*Paratrytone* Dyar, J. New York Ent. Soc., 13: 136 (1905). Type-species by original designation *Pamphila howardi* Skinner, Canadian Ent., 28: 187 (1896) (=*Pamphila aaroni* Skinner, Ent. News, 1: 6; 1890, subspecies). Preoccupied by *Paratrytone* Godman, *in* Godman and Salvin, Biol. Cent.-Americana, Lepid. Rhop., 2: 488 (1900).

1. **massasoit** (Scudder) *HESPERIA*. Proc. Essex Inst., 3: 171 (1864). TL — Carver, Massachusetts. Type may be in MCZ.

a. **m. massasoit** (Scudder) *HESPERIA*. Proc. Essex Inst., 3: 171 (1864). TL — Carver, Massachusetts. Type may be in MCZ. **196a.**

= f. "suffusa" (Laurent) *PAMPHILA*. Ent. News, 3: 15 (1892). TL — Philadelphia, Pennsylvania. HT in CM.

= f. "hughi" A. H. Clark. Ann. Carnegie Mus., 21: 7 (1931). TL — Beltsville, Maryland. HT in USNM.

b. **m. chermocki** Andersen and Simmons. J. Lepid. Soc., 30: 19-20 (1976). TL — New Bridge, Dorchester Co., Maryland. HT in USNM. **196b.**

2. **hobomok** (Harris) *HESPERIA*. Rept. Ins. Inj. Veg., 3rd ed.: 313 (1862). TL — "Massachusetts". Loc. of type not known [see **Note 144**]. **197.**

= ♀ f. "pocahontas" (Scudder) *HESPERIA*. Proc. Essex Inst., 3: 171 (1864). TL — "Massachusetts and Connecticut". ST's in CM and should be in MCZ.

= ♀ f. "quadaquina" (Scudder) *HESPERIA*. Proc. Boston Nat. Hist. Soc., 11: 381 (1868). TL — "Massachusetts". Type should be in MCZ [see **Note 145**].

= ♀ f. "alfaratta" Holland. Ann. Carnegie Mus., 19: 159 (1930). TL — "Kansas". HT in CM.

= f. "ridingsii" F. H. and R. L. Chermock. Canadian Ent., 72: 83 (1940). TL —Riding Mtns., Manitoba. HT in CNC.

= ab. "friedlei" F. Watson. J. New York Ent. Soc., 28: 232 (1920). TL — Van Cortlandt Park, New York, New York. HT in AMNH.

= ab. "pallida" F. Watson. J. New York Ent. Soc., 29: 172 (1921). TL — nr. Dunwoodie, New York. HT in AMNH.

3. **zabulon** (Boisduval and Leconte) *HESPERIA*. Hist. Lepid. Amerique sept.: pl. 76, figs. 6-7 [1834]. TL — "Georgia". Type probably never existed; name based on Abbot drawing [see **Notes 146, 147**]. **198.**

= *erratica* (Plötz) *HESPERIA*. Stettiner Ent. Ztg., 44: 210 (1883). TL — "Guatemala". Type may be in Munich or lost [see **Note 6**].

4. **taxiles** (W. H. Edwards) *PAMPHILA*. Trans. American Ent. Soc., 9: 5 (1881). TL — "Arizona, south Colorado, Nevada", restricted to Oak Creek Canyon, Custer Co., Colorado, by F. M. Brown and L. Miller, in press. LT in CM, designated by F. M. Brown and L. Miller, in press [see **Note 122**]. **199.**

5. **aaroni** (Skinner) *PAMPHILA*. Ent. News, 1: 6 (1890). TL — Cape May, New Jersey. HT in CM.

a. **a. aaroni** (Skinner) *PAMPHILA*. Ent. News, 1: 6 (1890). TL — Cape May, New Jersey. HT in CM. **200a.**

b. **a. howardi** (Skinner) *PAMPHILA*. Canadian Ent., 28: 187 (1896). TL — "Florida". HT in CM. **200b.**

6. **yehl** (Skinner) *PAMPHILA*. Ent. News, 4: 212 (1893). TL — "Florida". HT in FMNH [see **Note 148**]. **201.**

7. **viator** (W. H. Edwards) *HESPERIA*. Proc. Ent. Soc. Philadelphia, 4: 202 (1865). TL — "northern Illinois and New Orleans, Louisiana", restricted to Goose Lake Prairie, Grundy Co., Illinois, by Shapiro, J. Res. Lepid., 9: 110 (1971). NT in Illinois Nat. Hist. Surv., designated by Shapiro, J.' Res. Lepid., 9: 110 (1971).

a. **v. viator** (W. H. Edwards) *HESPERIA*. Proc. Ent. Soc. Philadelphia, **202a.**

4: 202 (1865). TL — "northern Illinois and New Orleans, Louisiana", restricted to Goose Lake Prairie, Grundy Co., Illinois, by Shapiro, J. Res. Lepid., 9: 110 (1971). NT in Illinois Nat. Hist. Surv., designated by Shapiro, J. Res. Lepid., 9: 110 (1971).

b. **v. zizaniae** Shapiro. J. Res. Lepid., 9: 110-113 (1971). TL — Tinicum Wildlife Preserve, Philadelphia Co., Pennsylvania. HT in Cornell Univ. **202b.**

Genus LXXIV: **Paratrytone** Godman

in Godman and Salvin, Biol. Cent.-Americana, Lepid. Rhop., 2: 487 (1900). Type-species by original designation *Paratrytone rhexenor* Godman, *in* Godman and Salvin, Biol. Cent.-Americana, Lepid. Rhop., 2: 488 (1900).

1. **melane** (W. H. Edwards) *HESPERIA*. Trans. American Ent. Soc., 2: 312 (1869). TL — "Arizona, south Colorado, Nevada", restricted to San Francisco Bay, California, by F. M. Brown and L. Miller, in press. LT in FMNH, designated by F. M. Brown and L. Miller, in press [see **Note 122**].

   a. **m. melane** (W. H. Edwards) *HESPERIA*. Trans. American Ent. Soc., 2: 312 (1869). TL — "Arizona, south Colorado, Nevada", restricted to San Francisco Bay, California, by F. M. Brown and L. Miller, in press. LT in FMNH, designated by F. M. Brown and L. Miller, in press [see **Note 122**]. **203a.**

   b. **m. vitellina** (Herrich-Schäffer) *COBALUS*. CorrespBl. zool.,-min. Ver. Regensburg, 23: 199 (1869). TL not stated. Type may be in Vienna. **203b.**

Genus LXXV: **Choranthus** Scudder

4th Ann. Rept. Peabody Acad. Sci., [1871]: 79 (1872). Type-species by original designation *Hesperia radians* Lucas, *in* Sagra, Hist. Cuba, 7: 650 (1856).

1. **radians** (Lucas) *HESPERIA*. *in* Sagra, Hist. Cuba, 7: 650 (1856). TL — "Cuba". HT in MNHN. **204.**
   = *magica* (Plötz) *HESPERIA*. Stettiner Ent. Ztg., 44: 202 (1883). TL — "Cuba". Type may be in Munich or lost [see **Note 6**].
   = *streckeri* (Skinner) *PAMPHILA*. Ent. News, 4: 211 (1893). TL — "Florida". HT in FMNH.
2. **haitensis** (Skinner) *PAMPHILA*. Ent. News, 31: 187 (1920). TL — "Haiti, Santo Domingo", restricted to Port de Paix, Haiti, by Gillham and Ehrlich, Trans. American Ent. Soc., 80: 112 (1954). ST's (one labelled as HT) in CM. **205.**

Genus LXXVI: **Mellana** Hayward

Acta Zool. Lilloana, 5: 98 (1948). Type-species by original designation *Atrytone mella* Godman, *in* Godman and Salvin, Biol. Cent.-Americana, Lepid. Rhop., 2: 492 (1900).

1. **eulogius** ((Plötz) *HESPERIA*. Stettiner Ent. Ztg., 44: 64 (1883). TL — "Mexico". Type may be in Munich or lost [see **Note 6**]. **206.**
   = *mellona* (Godman) *ATRYTONE*. *in* Godman and Salvin, Biol. Cent.-Americana, Lepid. Rhop., 2: 493 (1900). TL — "Mexico", restricted by Evans, Cat. American Hesp. . .British Mus., (4): 356 (1955). ST's (one labelled as HT) in BM.
   = *heberia* (Dyar) *ATRYTONE*. Ins. Insc. Menstr., 2: 5 (1914). TL — "British Guiana". HT in USNM.
2. **mexicana** (Bell) *ATRYTONE*. Anal. Escuela Nac. Cienc. Biol., 2: 461 (1942). TL — Vera Cruz, Mexico. HT in AMNH. **207.**

Genus LXXVII: **Euphyes** Scudder

4th Ann. Rept. Peabody Acad. Sci., [1871]: 80 (1872). Type-species by original designation *Hesperia metacomet* Harris, Rept. Ins. Inj. Veg., 3rd ed.: 317 (1862) (=*Hesperia ruricola* Boisduval, Ann. Soc. Ent. France, (2)10: 315; 1852, subspecies).

= *Arotis* Mabille, *in* P. Wytsman, Gen. Ins., 17B: 151 (1904). Type-species by monotypy *Arotis sirene* Mabille, *in* P. Wytsman, Gen. Ins., 17B: 151 (1904).

= *Pereneia* Lindsey, Denison Univ. Bull., J. Sci. Labs., 21: 107 (1925). Type-species by original designation *Pereneia pandora* Lindsey, Denison Univ. Bull., J. Sci. Labs., 21: 107-108 (1925).

1. **arpa** (Boisduval and Leconte) *HESPERIA*. Hist. Lepid. Amerique sept.: pl. 68 [1834]. TL — "Georgia". Type probably never existed; name based on Abbot drawing. 208.
2. **pilatka** (W. H. Edwards) *HESPERIA*. Trans. American Ent. Soc., 1: 287 (1867). TL — St. Augustine, Florida. HT in CM [see **Notes 149** and **150**]. 209.
   = *floridensis* (Plötz) *HESPERIA*. Stettiner Ent. Ztg., 44: 196 (1883). TL — "Florida". Type may be in Munich or lost [see **Note 6**].
3. **dion** (W. H. Edwards) *PAMPHILA*. Canadian Ent., 11: 238 (1879). TL — "Nebraska; Indiana; south shore Lake Michigan; Hamilton, Ontario", restricted to Whiting, Lake Co., Indiana, by F. M. Brown and L. Miller, in press. LT in CM, designated by F. M. Brown and L. Miller, in press [see **Notes 122** and **151**]. 210.
4. **alabamae** (Lindsey) *ATRYTONE*. Ent. News, 34: 210 (1923). TL — Mobile Co., Alabama. HT should be in CM or Cornell Univ. 211.
5. **dukesi** (Lindsey) *ATRYTONE*. Ent. News, 34: 210 (1923). TL — Mobile Co., Alabama. HT in USNM. 212.
6. **conspicua** (W. H. Edwards) *HESPERIA*. Proc. Ent. Soc. Philadelphia, 2: 17 (1863). TL — "Lansing, Michigan", restricted to Dansville state game area, Ingham Co., by F. M. Brown and L. Miller, in press. NT in CM, designated by F. M. Brown and L. Miller, in press [see **Notes 122** and **152**].
   a. **c. conspicua** (W. H. Edwards) *HESPERIA*. Proc. Ent. Soc. Philadelphia, 2: 17 (1863). TL — "Lansing, Michigan", restricted to Dansville state game area, Ingham Co., by F. M. Brown and L. Miller, in press. NT in CM, designated by F. M. Brown and L. Miller, in press [see **Notes 122** and **152**]. 213a.
      = *pontiac* (W. H. Edwards) *HESPERIA*. Proc. Ent. Soc. Philadelphia, 2: 17 (1863). TL — "Lansing, Michigan", restricted to Dansville state game area, Ingham Co., by F. M. Brown and L. Miller, in press. NT in CM, designated by F. M. Brown and L. Miller, in press [see **Note 122**].
      = *orono* (Scudder) *HEDONE*. 4th Ann. Rept. Peabody Acad. Sci., [1871]: 79 (1872). TL — "northern states" [Orono, Maine?]. Loc. of type not known (MCZ?).
   b. **c. buchholzi** (Ehrlich and Gillham) *ATRYTONE*. Ent. News, 62: 188-189 (1951). TL — Valley, Nebraska. HT in AMNH. 213b.
7. **berryi** (Bell) *ATRYTONE*. Ent. News, 52: 167 (1941). TL — Monticello, Jefferson Co., Florida. HT in AMNH. 214.
8. **macguirei** H. A. Freeman. J. Lepid. Soc., 29: 227-229 (1975). TL — Benbrook Reservoir, Tarrant Co., Texas. HT in AMNH. 215.
9. **bimacula** (Grote and Robinson) *HESPERIA*. Ann. New York Lyc. Nat. Hist., 8: 433 (1867). TL — "Atlantic dist."; Philadelphia, Pennsylvania. Type may be in New York State Mus., Albany, or AMNH. 216.
   = *acanootus* (Scudder) *HESPERIA*. Proc. Boston Soc. Nat. Hist., 11: 381 (1868). TL — Lexington, Massachusetts. Type should be in MCZ.

= *illinois* (Dodge) *HESPERIA*. Canadian Ent., 4: 217 (1872). TL — Bureau Co., Illinois. Loc. of type not known.

= ab. "contradicta" (Leussler) *ATRYTONE*. Ent. News, 44: 71 (1933). TL — Valley, Nebraska. HT in Ohio State Univ.

10. **ruricola** (Boisduval) *HESPERIA*. Ann. Soc. Ent. France, (2)10: 315 (1852). TL — "California". Type may be in MNHN or CM (!) [see **Notes 153** and **154**].

a. **r. ruricola** (Boisduval) *HESPERIA*. Ann. Soc. Ent. France, (2)10: 315 (1852). TL — "California". Type may be in MNHN or CM (!) [see **Notes 153** and **154**]. **217a.**

= *vestris* (Boisduval) *HESPERIA*. Ann. Soc. Ent. France, (2)10: 317 (1852). TL — "California". Type may be in MNHN.

= *osceola* (Lintner) *PAMPHILA*. 30th Rept. New York St. Mus. Nat. Hist., [1876]: 170 (1878). TL — Mendocino, California. Type may be in New York State Mus., Albany.

= *californica* (Mabille) *PAMPHILA*. Ann. Soc. Ent. Belgique, 27 Bull.: 68 (1883). TL — "California". HT in BM.

b. **r. metacomet** (Harris) *HESPERIA*. Rept. Ins. Inj. Veg., 3rd ed.: 317 (1862). TL — "Massachusetts". Loc. of type not known. **217b.**

= *rurea* (W. H. Edwards) *PAMPHILA*. Proc. Acad. Nat. Sci. Philadelphia, 14: 58 (1862). TL — Rock Island, Illinois. NT in CM, designated by F. M. Brown and L. Miller, in press [see **Note 122**].

= *kiowah* (Reakirt) *HESPERIA*. Proc. Ent. Soc. Philadelphia, 6: 150 (1866). TL — "Rocky Mountains"; Colorado according to Strecker collection label. HT in FMNH.

= *osyka* (W. H. Edwards) *HESPERIA*. Trans. American Ent. Soc., 1: 288 (1867, ♂ only). TL — New Orleans, Louisiana. LT in CM, designated by F. M. Brown and L. Miller, in press [see **Note 122**].

= ab. "immaculatus" (R. C. Williams) *PAMPHILA*. Ent. News, 25: 267 (1914). TL — Jemez Mtns., New Mexico. HT in CM.

Genus LXXVIII: **Asbolis** Mabille

in P. Wytsman, Gen. Ins., 17B: 134 (1904). Type-species by designation of Lindsey, Ann. Ent. Soc. America, 25: 79 (1925) *Goniloba sandarac* Herrich-Schäffer, CorrespBl. zool.-min. Ver. Regensburg, 19: 54 (1865) (=*Eudamus capucinus* Lucas, *in* Sagra, Hist. Cuba, 7: 625; 1857).

1. **capucinus** (Lucas) *EUDAMUS*. *in* Sagra, Hist. Cuba, 7: 625 (1857). TL — "Cuba". Type may be in MNHN. **218.**

= *sandarac* (Herrich-Schäffer) *GONILOBA*. CorrespBl. zool.-min. Ver. Regensburg, 19: 54 (1865). TL — "Cuba". HT in ANSP.

= *palaea* (Hewitson) *HESPERIA*. Descr. one-hundred new spp. Hesp., (2): 31 [1868]. TL not stated. HT in BM.

Genus LXXIX: **Atrytonopsis** Godman

in Godman and Salvin, Biol. Cent.-Americana, Lepid. Rhop., 2: 497 (1900). Type-species by original designation *Hesperia deva* W. H. Edwards, Trans. American Ent. Soc., 5: 292 (1876).

1. **hianna** (Scudder) *HESPERIA*. Proc. Boston Soc. Nat. Hist., 11: 382 (1868). TL — Quincy and Dorchester, Massachusetts. ST's should be in MCZ.

a. **h. hianna** (Scudder) *HESPERIA*. Proc. Boston Soc. Nat. Hist., 11: 382 (1868). TL — Quincy and Dorchester, Massachusetts. ST's should be in MCZ. **219a.**

= *grotei* (Plötz) *HESPERIA*. Stettiner Ent. Ztg., 44: 54 (1883). TL — "Union" [U. S. A.]. Type may be in Munich or lost [see **Note 6**].

b. **h. turneri** H. A. Freeman. Ent. News, 59: 205-206 (1948). TL — Barber Co., Texas. HT in AMNH. 219b.

2. **deva** (W. H. Edwards) *HESPERIA*. Trans. American Ent. Soc., 5: 292 (1876). TL — Prescott, Arizona. HT in CM. 220.

3. **lunus** (W. H. Edwards) *PAMPHILA*. Papilio, 4: 56 (1884). TL — "Arizona", probably vicinity of Tucson, Arizona. LT in CM, designated by F. M. Brown and L. Miller, in press [see **Note 122**]. 221.

4. **vierecki** (Skinner) *PAMPHILA*. Ent. News, 13: 213 (1902). TL — Dry Canyon, Alamagordo, New Mexico. HT in CM. 222.

5. **loammi** (Whitney) *LEREMA*. Canadian Ent., 8: 76 (1876). TL — Jacksonville, Florida. Loc. of type not known (Boston Soc. Nat. Hist.?). 223.

= *regulus* (W. H. Edwards) *PAMPHILA*. Trans. American Ent. Soc., 9: 5 (1881). TL — upper St. John's River, Orange Co., Florida, as restricted by F. M. Brown and L. Miller, in press. LT in CM, designated by F. M. Brown and L. Miller, in press [see **Note 122**].

= *apostologica* (Strand) *PARNARA*. Archiv. f. Naturgesch., 86 Abt. A (7): 160 (1921). TL — "Florida". Type may be in ZMHU.

6. **pittacus** (W. H. Edwards) *PAMPHILA*. Papilio, 2: 138 (1882). TL — Fort Grant or Graham Mtns., Arizona. LT in CM, designated by F. M. Brown and L. Miller, in press [see **Note 122**]. 224.

7. **python** (W. H. Edwards) *PAMPHILA*. Papilio, 2: 139 (1882). TL — Ft. Grant or Mt. Graham, Arizona. HT in CM. 225.

8. **cestus** (W. H. Edwards) *PAMPHILA*. Papilio, 4: 57 (1884). TL — "So. Arizona", probably vicinity of Tucson, Arizona. HT in USNM.

a. **c. cestus** (W. H. Edwards) *PAMPHILA*. Papilio, 4: 57 (1884). TL — "So. Arizona", probably vicinity of Tucson, Arizona. HT in USNM. 226a.

b. **c. margarita** (Skinner) *PAMPHILA*. Canadian Ent., 45: 426 (1913). TL — Jemez Springs, New Mexico. HT in CM. 226b.

*9. **ovinia** (Hewitson) *HESPERIA*. Trans. Ent. Soc. London, (3)2: 496 (1866). TL — "Venezuela". HT in BMNH.

a. **o. edwardsi** Barnes and McDunnough. Contrib. Nat. Hist. Lepid. N. America, 3: 315 (1916). TL — Redington and Baboquivari Mtns., Arizona. ST's in USNM [see **Note 155**]. 227a.

= ab. "polingi" Gunder. Ent. News, 36: 195 (1925). TL — Baboquivari Mtns., Arizona. HT in AMNH.

Genus LXXX: **Amblyscirtes** Scudder

4th Ann. Rept. Peabody Acad. Sci., [1871]: 75 (1872). Type-species by original designation *Hesperia vialis* W. H. Edwards, Proc. Acad. Nat. Sci. Philadelphia, 14: 58 (1862).

= *Stomyles* Scudder, 4th Ann. Rept. Peabody Acad. Sci., [1871]: 76 (1872). Type-species by original designation *Pyrgus textor* Geyer, *in* Hübner, Zutr. z. Samml. exot. Schmett., 3: 28 [1827-1831] (=*Hesperia aesculapius* Fabricius, Ent. Syst., 3: 347-348; 1793).

= *Mastor* Godman, *in* Godman and Salvin, Biol. Cent.-Americana, Lepid. Rhop., 2: 567 (1900). Type-species by original designation *Mastor anubis* Godman, *in* Godman and Salvin, Biol. Cent.-Americana, Lepid. Rhop., 2: 568 (1900).

= *Epiphyes* Dyar, J. New York Ent. Soc., 13: 132 (1905). Type-species by original designation *Pamphila carolina* Skinner, Ent. News, 3: 222 (1892) [see **Note 156**].

1. **simius** W. H. Edwards. Trans. American Ent. Soc., 9: 6 (1881). TL — "Oak Creek Canyon and Pueblo, Colorado", restricted to Oak Creek Canyon, Custer Co., Colorado, by F. M. Brown and L. Miller, in press. LT in CM, designated by F. M. Brown and L. Miller, in press [see **Note 122**]. 228.

2. **exoteria** (Herrich-Schäffer) *GONILOBA*. CorrespBl. zool.-min. Ver. Regensburg, 23: 196 (1869). TL not stated. Type may be in Vienna. 229.
   = *nanno* W. H. Edwards. Papilio, 2: 142 (1882). TL — Ft. Grant, Graham Mtns., Arizona. HT in CM.
   = *marcus* (Strand) *CHAPRA*. Int. Ent. Zts. (Guben), 3: 176 (1907). TL — "Delagoa Bay" [Africa], in error. HT in ZMHU.
3. **cassus** W. H. Edwards. Papilio, 3: 72 (1883). TL — Mt. Graham, Arizona. LT in CM, designated by F. M. Brown and L. Miller, in press [see **Notes 122** and **157**]. 230.
4. **aenus** W. H. Edwards. Field and Forest, 3: 118 (1878). TL — "So. Colorado", restricted to Hardscrabble Rd., Pueblo Co., Colorado, by F. M. Brown and L. Miller, in press. LT in CM, designated by F. M. Brown and L. Miller, in press [see **Note 122**]. 231.
5. **linda** H. A. Freeman. Ent. News, 54: 19 (1943). TL — Hope Hill Farm, Falkner Co., Arkansas. HT in AMNH. 232.
6. **oslari** (Skinner) *PAMPHILA*. Ent. News, 10: 112 (1899). TL — Chimney Gulch, Colorado. HT in CM. 233.
7. **erna** H. A. Freeman. Ent. News, 54: 17 (1943). TL — Palo Duro Canyon, Armstrong Co., Texas. HT in AMNH. 234.
8. **hegon** (Scudder) *HESPERIA*. Proc. Essex Inst., 3: 176 (Apr., 1864). TL — White Mtns., New Hampshire. Type may be in MCZ [see **Note 158**]. 235.
   = *samoset* (Scudder) *HESPERIA*. Proc. Essex Inst., 3: 176 (Apr., 1864). TL — "Massachusetts and New Hampshire". ST's may be in MCZ [see **Note 158**].
   = *nemoris* (W. H. Edwards) *HESPERIA*. Proc. Ent. Soc. Philadelphia, 2: 507 ([Apr.], 1864). TL — Portsmouth, Ohio, altered to 3 mi. East of Zaleski, Vinton Co., Ohio, on basis of NT. NT in CM, designated by F. M. Brown and L. Miller, in press [see **Notes 122** and **159**].
   = *argina* (Plötz) *PYRGUS*. Mitt. Nat. Neuvorpomm., 15: 22 (1884). TL — "Brisbane", [Australia], in error. Type may be in Munich or lost [see **Note 6**].
9. **texanae** Bell. Bull. Brooklyn Ent. Soc., 22: 203 (1927). TL — Alpine, Texas. HT in AMNH. 236.
*10. **tolteca** Scudder. 4th Ann. Rept. Peabody Acad. Sci., [1871]: 76 (1872). TL — Tehuantepec, Mexico. Type may be in MCZ [see **Note 160**]. 237.
11. **prenda** Evans. Cat. American Hesp. . .British Mus., (4): 389 (1955). TL — Tucson, Arizona. HT in BM. 238.
12. **aesculapius** (Fabricius) *HESPERIA*. Ent. Syst., 3: 347-348 (1793). TL — "America boreali", possibly should be restricted to Georgia. Type lost [see **Note 125**]. 239.
   = *textor* (Hübner) *PYRGUS*. Zutr. z. Samml. exot. Schmett., 3: 28 [1827-1831]. TL — "United States". Type probably lost, but may be in Vienna [see **Note 9**].
   = *oneko* (Scudder) *HESPERIA*. Proc. Essex Inst., 3: 176 (1864). TL — "Connecticut". Type may be in MCZ [see **Note 161**].
   = *wakulla* (W. H. Edwards) *HESPERIA*. Trans. American Ent. Soc., 2: 311 (1869). TL — Apalachicola, Florida. LT in CM, designated by F. M. Brown and L. Miller, in press [see **Note 122**].
13. **carolina** (Skinner) *PAMPHILA*. Ent. News, 3: 222 (1892). TL — S of Hamlet, Richmond Co., North Carolina. HT in CM. 240.
14. **reversa** Jones. Ent. News, 37: 197 (1926). TL — Suffolk, Nansemond Co., Virginia, according to H. A. Freeman, J. Lepid. Soc., 27: 51 (1973). Type may be in YPM. 241.
15. **nereus** (W. H. Edwards) *HESPERIA*. Trans. American Ent. Soc., 5: 207 (1876). TL — "South Apache, Arizona". HT in CM. 242.

16. **nysa** W. H. Edwards. Canadian Ent., 9: 191 (1877). TL — "Texas", restricted to Meridian Creek, near Clifton, Bosque Co., Texas, by F. M. Brown and L. Miller, in press. LT in CM, designated by F. M. Brown and L. Miller, in press [see **Note 122**]. 243.
= *similis* (Strecker) *PAMPHILA*. Lepid., Rhop. Het.: 131 (1878). TL — "vic. New Braunfels and San Antonio, Texas". ST's in FMNH.

17. **eos** (W. H. Edwards) *HESPERIA*. Trans. American Ent. Soc., 3: 276 (1871). TL — Dallas, Texas. LT in MCZ, designated by F. M. Brown and L. Miller, in press [see **Note 122**]. 244.
= *comus* (W. H. Edwards) *HESPERIA*. Trans. American Ent. Soc., 5: 206 (1876). TL — "Texas", restricted to Archer Co., Texas, on basis of NT. NT in CM, designated by F. M. Brown and L. Miller, in press [see **Note 122**].
= *nilus* W. H. Edwards. Field and Forest, 3: 118 (1878). TL — "Texas", restricted to Archer Co., Texas, by F. M. Brown and L. Miller, in press. HT in CM.
= *quinquemacula* (Skinner) *PAMPHILA*. Ent. News, 22: 413 (1911). TL — Las Cruces, New Mexico. HT in CM [see **Note 162**].

18. **vialis** (W. H. Edwards) *HESPERIA*. Proc. Acad. Nat. Sci. Philadelphia, 14: 58 (1862). TL — "Rock Island, Illinois; Lake Winnipeg", will be restricted to western Illinois, by F. M. Brown and L. Miller, in press. NT will be in CM when designated by F. M. Brown and L. Miller [see **Note 122**]. 245.
= *asella* (Herrich-Schäffer) *COBALUS*. CorrespBl. zool.-min. Ver. Regensburg, 23: 225 (1869). TL not stated. Type may be in Vienna.

19. **celia** Skinner. Ent. News, 6: 113 (1895). TL — "Blanco and Comal Cos., Texas". ST's (one labelled as HT from "New Braunfels, Texas") in CM. 246.

20. **belli** H. A. Freeman. Ent. News, 52: 50 (1941). TL — Vickery, Dallas Co., Texas. HT in AMNH. 247.

21. **alternata** (Grote and Robinson) *HESPERIA*. Trans. American Ent. Soc., 1: 3 (1867). TL — Atlanta dist., Georgia. Type may be in New York State Mus., Albany or AMNH. 248.
= *meridionalis* Dyar. J. New York Ent. Soc., 13: 135 (1905). TL — "Georgia and Florida". ST's may be in AMNH or USNM.

22. **phylace** (W. H. Edwards) *PAMPHILA*. Field and Forest, 3: 117 (1878). TL — "So. Colorado", probably along Hardscrabble Rd., Pueblo Co., Colorado, nr. foothills of Wet Mtns. HT in CM. 249.

23. **fimbriata** (Plötz) *HESPERIA*. Stettiner Ent. Ztg., 43: 322 (1882). TL — "Mexico". HT stated to be in ZMHU. 250.
= *bellus* (W. H. Edwards) *PAMPHILA*. Papilio, 4: 57 (1884). TL — "southern Arizona", probably vicinity of Tucson, Arizona. HT in USNM.

Genus LXXXI: **Lerodea** Scudder

4th Ann. Rept. Peabody Acad. Sci., [1871]: 80 (1872). Type-species by original designation *Hesperia eufala* W. H. Edwards, Trans. American Ent. Soc., 2: 311 (1869).

1. **eufala** (W. H. Edwards) *HESPERIA*. Trans. American Ent. Soc., 2: 311 (1869). TL — Apalachicola, Florida (NT probably wrongly labelled "Indian River, Florida"). NT in CM, designated by F. M. Brown and L. Miller, in press [see **Notes 122** and **163**]. 251.
= *osyka* (W. H. Edwards) *HESPERIA*. Trans. American Ent. Soc., 1: 288 (1867, *in partim*, ♀ only) [see *Euphyes ruricola metacomet*, no. **217b** and **Note 122**].
= *dispersa* (Herrich-Schäffer) *GONILOBA*. CorrespBl. zool.-min. Ver. Regensburg, 23: 197 (1869). TL not stated. Type may be in Vienna [see **Note 164**].
= *floridae* (Mabille) *PAMPHILA*. Bull. Soc. Ent. France, (5)6: 9 (1876).

TL — "Florida". Type probably in MNHN.
= *micylla* (Burmeister) *CARYSTUS*. Descr. Phys. Rep. Argentina, 5: 272 (1878). TL — Buenos Aires, Argentina. Type may be in Mus. Nac., Buenos Aires.
= *obscura* Mabille. *in* P. Wytsman, Gen. Ins., 17B: 131 (1904). TL not stated, but described as a "variety" of *floridae*. Type may be in MNHN.

2. **arabus** (W. H. Edwards) *PAMPHILA*. Papilio, 2: 26 (1882). TL — "So. Arizona", probably vicinity of Tucson, Arizona. NT in CM, designated by F. M. Brown and L. Miller, in press. [see **Note 122**]. 252.
3. **dysaules** Godman. *in* Godman and Salvin, Biol. Cent.-Americana, Lepid. Rhop., 2: 500 [1900]. TL — Guerrero, Mexico. HT in BM. 253.

Genus LXXXII: **Oligoria** Scudder

4th Ann. Rept. Peabody Acad. Sci., [1871]: 82 (1872). Type-species by original designation *Hesperia maculata* W. H. Edwards, Proc. Ent. Soc. Philadelphia, 4: 202 (1865).

1. **maculata** (W. H. Edwards) *HESPERIA*. Proc. Ent. Soc. Philadelphia, 4: 202 (1865). TL — New Orleans, Louisiana. NT in CM, will be designated by F. M. Brown and L. Miller, in press [see **Notes 122** and **165**]. 254.
= *grossula* (Herrich-Schäffer) *COBALUS*. CorrespBl. zool.-min. Ver. Regensburg, 23: 202 (1869). TL not stated. Type may be in Vienna.
= *deleta* (Herrich-Schäffer) *COBALUS*. CorrespBl. zool.-min. Ver. Regensburg, 23: 202 (1869). TL not stated. Type may be in Vienna.
= *norus* (Plötz) *HESPERIA*. Stettiner Ent. Ztg., 44: 36 (1883). TL — New Orleans, Louisiana. Type may be in Munich or lost [see **Note 6**].

Genus LXXXIII: **Calpodes** Hübner

Verz. bekannt. Schmett., (7): 107 [1819]. Type-species by designation of Scudder, 4th Ann. Rept. Peabody Acad. Sci., [1871]: 82 (1872). *Papilio ethlius* Stoll, *in* Cramer, Uitl. Kapellen, 4: 212 [1782] [see **Note 166**].

1. **ethlius** (Stoll) *PAPILIO*. *in* Cramer, Uitl. Kapellen, 4: 212 [1782]. TL — "Surinam". Type probably lost [see **Note 15**]. 255.
= *chemnis* (Fabricius) *HESPERIA*. Ent. Syst., 3: 331 (1793). TL — "in Indiis", recommended TL: Jamaica. Type lost.
= *olynthus* (Boisduval and Leconte) *EUDAMUS*. Hist. Lepid. Amerique sept.: pl. 75, figs. 1, 2 [1834]. TL — "Georgia". Type probably never existed; name based on Abbot drawing.

Genus LXXXIV: **Panoquina** Hemming

Entomologist, 67: 38 (1934). Type-species, as replacement name,*Hesperia panoquin* Scudder, Proc. Essex Inst., 3: 178 (1864).
= ‡*Prenes* Scudder, 4th Ann. Rept. Peabody Acad. Sci., [1871]: 81 (1872). Type-species by original designation *Hesperia panoquin* Scudder, Proc. Essex Inst., 3: 178 (1864). Preoccupied by *Prenes* Gistl, Nat. Thierr.: 10 (1848).

1. **panoquin** (Scudder) *HESPERIA*. Proc. Essex Inst., 3: 178 (1864). TL — 256.

"Connecticut". Type may be in MCZ.
= *ophis* (W. H. Edwards) *HESPERIA*. Trans. American Ent. Soc., 3: 216 (1871). TL — "Apalachicola, Florida", restricted to St. George I., Franklin Co., by F. M. Brown and L. Miller, in press. NT in CM, designated by F. M. Brown and L. Miller, in Press [see **Notes 122, 167**].
= *wimico* (Plötz) *HESPERIA*. Stettiner Ent. Ztg., 44: 55 (1883). TL not stated. Type may be in Munich or lost [see **Note 6**].

2. **panoquinoides** (Skinner) *PAMPHILA*. Ent. News, 2: 175 (1891). TL — "Key West, Florida; Texas". ST's (one labelled as HT from "Key West, Fla., H.K.M.") in CM. 257.

3. **errans** (Skinner) *PAMPHILA*. Ent. News, 3: 174 (1892). TL — "California; Texas". ST's (one labelled as HT from "California, Dyar") in CM [see **Note 168**]. 258.

4. **ocola** (W. H. Edwards) *HESPERIA*. Proc. Ent. Soc. Philadelphia, 2: 20 (1863). TL — "Georgia; Florida; Texas", restricted to Ocala, Florida, by F. M. Brown and L. Miller, in press. LT in CM, designated by F. M. Brown and L. Miller, in press [see **Note 122**]. 259.
= *stratyllis* (Burmeister) *PAMPHILA*. Descr. Phys. Rep. Argentina, 5: 276 (1878). TL — Corrientes, Argentina. Type may be in Mus. Nac., Buenos Aires, Argentina.
= *heterospila* (Mabille) *PAMPHILA*. Petites Nouvelles, 2: 238 (1878). TL — "Peru". Type may be in MNHN.
= *ortygia* (Möschler) *PAMPHILA*. Verh. zool.-bot. Ges. Wien, 32: 328 (1882). TL — "Surinam". Type may be in Vienna.

5. **hecebolus** (Scudder) *PRENES*. 4th Ann. Rept. Peabody Acad. Sci., [1871]: 81 (1872). TL — Tehuantepec, Mexico. Type should be in MCZ. 260.
= *parilis* (Mabille) *PAMPHILA*. Ann. Soc. Ent. Belgique, 35 Bull.: 171 (1891). TL — Chiriquí, [Panama]. Type may be in MNHN.

6. **sylvicola** (Herrich-Schäffer) *GONILOBA*. CorrespBl. zool.-min. Ver. Regensburg, 19: 55 (1865). TL — "Cuba". HT in ANSP [see **Note 169**]. 261.

7. **evansi** (H. A. Freeman) *CALPODES*. Ent. News, 57: 186-187 (1946). TL — Pharr, Texas. HT in AMNH. 262.

Genus LXXXV: **Nyctelius** Hayward

Acta Zool. Lilloana, 5: 99 (1948). Type-species by original designation *Hesperia nyctelius* Latreille, Enc. Meth., 9 (Ins. 2): 746 [1824].

1. **nyctelius** (Latreille) *HESPERIA*. Enc. Meth., 9 (Ins. 2): 746 [1824]. TL — "Brasil and Surinam". ST's may be in MNHN. 263.
= *ares* (C. Felder) *HESPERIA*. Verh. zool.-bot. Ges. Wien, 12: 477 (1862). TL — Rio de Janeiro, Brasil. Type probably in Vienna.
= *coscinia* (Herrich-Schäffer) *GONILOBA*. CorrespBl. zool.-min. Ver. Regensburg, 19: 54 (1865). TL — "Cuba". HT in ANSP.
= *aegialea* (Plötz) *HESPERIA*. Stettiner Ent. Ztg., 44: 51 (1883). TL not stated. Type may be in Munich or lost [see **Note 6**].

Genus LXXXVI: **Thespieus** Godman

in Godman and Salvin, Biol. Cent.-Americana, Lepid. Rhop., 2: 519 (1900). Type-species by original designation *Hesperia dalman* Latreille, Enc. Meth., 9 (Ins. 2): 747 [1824].

1. **macareus** (Herrich-Schäffer) *GONILOBA*. CorrespBl. zool.-min. Ver. Regensburg, 23: 192 (1869). TL not stated. Type may be in Vienna or lost. 264.
= *emacareus* (Plötz) *HESPERIA*. Stettiner Ent. Ztg., 43: 438 (1882). TL — "Venezuela". Type may be in Munich or lost [see **Note 6**].

Subfamily **Megathyminae** J. H. and A. Comstock

Man. Stud. Ins.: 365 (1895) [see **Notes 1, 170**].

Tribe **Aegialini** D. Stallings and Turner

Lepid. News, 11: 134 (1957).
= Agathymini D. Stallings and Turner, Lepid. News, 12: 93 (1959)

Genus LXXXVII: **Agathymus** H. A. Freeman

Lepid. News, 12: 82 (1959). Type-species by original designation *Megathymus neumoegeni* W. H. Edwards, Papilio, 2: 27 (1882).

1. **neumoegeni** (W. H. Edwards) *MEGATHYMUS*. Papilio, 2: 27 (1882). TL — nr. Prescott, Yavapai Co., Arizona. LT in USNM, designated by D. Stallings and Turner, Lepid. News, 8: 79 (1954). **265.**
2. **carlsbadensis** (D. Stallings and Turner) *MEGATHYMUS*. Ent. News, 68: 8 (1957). TL — head of Yucca Canyon, Carlsbad Caverns Natl. Park, Eddy Co., New Mexico. HT in YPM. **266.**
3. **florenae** (D. Stallings and Turner) *MEGATHYMUS*. Ent. News, 68: 12 (1957). TL — Scenic Drive, Davis Mtns., Jeff Davis Co., Texas. HT in YPM. **267.**
4. **judithae** (D. Stallings and Turner) *MEGATHYMUS*. Ent. News, 68: 5 (1957). TL — Hueco Mtns., E of Hueco, El Paso Co., Texas. HT in YPM. **268.**
5. **diabloensis** H. A. Freeman. American Mus. Novitates, (2097): 1 (1962). TL — Diablo Mtns., W of Victoria Canyon, Hudspeth Co., Texas. HT in AMNH. **269.**
6. **mcalpinei** (H. A. Freeman) *MEGATHYMUS*. American Mus. Novitates, (1711): 6 (1955). TL — 5 mi. N of Marathon, Brewster Co., Texas. HT in AMNH [see **Note 170**]. **270.**
7. **chisosensis** (H. A. Freeman) *MEGATHYMUS*. American Mus. Novitates, (1593): 1 (1952). TL — Chisos Mtns., Big Bend Natl. Park, Brewster Co., Texas. HT in AMNH. **271.**
8. **aryxna** (Dyar) *MEGATHYMUS*. J. New York Ent. Soc., 13: 141 (1905) TL — "Mexico", restricted to SE of Nogales, Sonora, Mexico, by Barnes and McDunnough, Contrib. Nat. Hist. Lepid. N. America, 1: 23 (1912). LT in BM, designated by I. C. Z. N. (Opinion 483). **272.**
   = *drucei* (Skinner) *MEGATHYMUS*. Trans. American Ent. Soc., 37: 207 (1911). TL — "Mexico". LT in BM, designated by I. C. Z. N. (Opinion 483).
9. **baueri** (D. Stallings and Turner) *MEGATHYMUS*. Lepid. News, 8: 80 (1954). TL — nr. Verde Hot Springs, Yavapai Co., Arizona. HT in YPM. **273.**
10. **freemani** D. Stallings, Turner and J. Stallings. Ent. News, 71: 109 (1960). TL — nr. Bagdad, Yavapai Co., Arizona. HT in YPM. **274.**
11. **evansi** (H. A. Freeman) *MEGATHYMUS*. Field and Lab., 18: 144-146 (1950). TL — Ramsey Canyon, Huachuca Mtns., Cochise Co., Arizona. HT in AMNH. **275.**
12. **mariae** (Barnes and Benjamin) *MEGATHYMUS*. Contrib. Nat. Hist. Lepid. N. America, 5: 100 (1924). TL — Franklin Mtns., El Paso, El Paso Co., Texas. HT in USNM. **276.**
13. **chinatiensis** H. A. Freeman. J. Lepid. Soc., 18: 172 (1964). TL — 2.7 mi. S. of Shafter, Presidio Co., Texas. HT in AMNH. **277.**
14. **lajitaensis** H. A. Freeman. J. Lepid. Soc., 18: 174 (1964). TL — 10 mi. W of Lajita, Presidio Co., Texas. HT in AMNH. **278.**
15. **rindgei** H. A. Freeman. J. Lepid. Soc., 18: 180 (1964). TL — 14 mi. N of Brackettville, Kinney Co., Texas. HT in AMNH. **279.**

16. **gilberti** H. A. Freeman. J. Lepid. Soc., 18: 176 (1964). TL — 14 mi. N of Brackettville, Kinney Co., Texas. HT in AMNH. 280.
17. **valverdiensis** H. A. Freeman. J. Lepid. Soc., 20: 182 (1966). TL — 28 mi N of Del Rio, Val Verde Co., Texas. HT in AMNH. 281.
18. **stephensi** (Skinner) *MEGATHYMUS*. Ent. News, 23: 126 (1912). TL — Mason Valley (La Puerta), San Diego Co., California. HT in CM. 282.
19. **polingi** (Skinner) *MEGATHYMUS*. Ent. News, 16: 232 (1905). TL — probably Baboquivari Mtns., Pima Co., Arizona. HT in CM. 283.
20. **alliae** (D. Stallings and Turner) *MEGATHYMUS*. Ent. News, 68: 1 (1957) TL — 15 mi. W of Cameron, Coconino Co., Arizona. HT in YPM. 284.

Tribe **Megathymini** J. H. and A. Comstock

Man. Stud. In.: 365 (1895) [see **Notes 1, 170**].

Genus LXXXVIII: **Megathymus** Scudder

4th Ann. Rept. Peabody Acad. Sci., [1871]: 83 (1872). Type-species by original designation *Eudamus* (?) *yuccae* Boisduval and Leconte, Hist. Lepid. Amerique sept.: pl. 70 [1834].1

1. **yuccae** (Boisduval and Leconte) *EUDAMUS* (?). Hist. Lepid. Amerique sept.: pl. 70 [1834]. TL — Aiken Co., South Carolina, restricted by H. A. Freeman, Ent. News, 54: 211-217 (1943). NT in AMNH, designated by H. A. Freeman, Field and Lab., 20: 30 (1952).
   a. y. **yuccae** (Boisduval and Leconte) *EUDAMUS* (?). Hist. Lepid. Amerique sept.: pl. 70 [1834]. TL — Aiken Co., South Carolina, restricted by H. A. Freeman, Ent. News, 54: 211-217 (1943). NT in AMNH, designated by H. A. Freeman, Field and Lab., 20: 30 (1952). 285a.
      = *alabamae* H. A. Freeman. Ent. News, 54: 211-217 (1943). TL — Anniston and Rockford, Alabama. HT in AMNH.
   b. y. **buchholzi** H. A. Freeman. Field and Lab., 20: 31 (1952). TL — Jupiter, Palm Beach Co., Florida. HT in AMNH. 285b.
2. **coloradensis** C. V. Riley. Trans. Acad. Sci. St. Louis, 3: 568 (1877). TL — nr. Colorado Springs, El Paso Co., Colorado. HT in USNM.
   a. c. **coloradensis** C. V. Riley. Trans. Acad. Sci. St. Louis, 3: 568 (1877). TL — nr. Colorado Springs, El Paso Co., Colorado. HT in USNM. 286a.
   b. c. **elidaensis** D. Stallings, Turner and J. Stallings. J. Lepid. Soc., 20: 170-172 (1966). TL — SW of Elida, Roosevelt Co., New Mexico. HT in YPM. 286b.
   c. c. **navajo** Skinner. Ent. News, 22: 300 (1911). TL — Ft. Wingate, Zuni Mtns., McKinley Co., New Mexico. HT in CM. 286c.
   d. c. **browni** D. Stallings and Turner. Ent. News, 71: 112 (1960). TL — Salina, Sevier Co., Utah. HT probably in YPM. 286d.
   e. c. **stallingsi** H. A. Freeman. Ent. News, 54: 214 (1943). TL — Caldwell, Sumner Co., Kansas. HT in AMNH. 286e.
      = ♀ f. "dee" H. A. Freeman. Ent. News, 54: 216 (1943). TL — Caldwell, Sumner Co., Kansas. HT in AMNH.
   f. c. **reinthali** H. A. Freeman. J. Lepid. Soc., 17: 91 (1963). TL — 2 mi. W of Ben Wheeler, Van Zandt. Co., Texas. HT in AMNH. 286f.
   g. c. **martini** D. Stallings and Turner. Bull. Soc. California Acad. Sci., 55: 150 (1956). TL — Little Rock, Los Angeles Co., California. HT probably in YPM. 286g.
   h. c. **maudae** D. Stallings, Turner and J. Stallings. J. Lepid. Soc., 20: 169-170 (1966). TL — 21 mi. N. of Essex, San Bernardino Co., California. HT in YPM. 286h.
   i. c. **arizonae** Tinkham. Bull. So. California Acad. Sci., 53: 81 (1954). TL — Mountain View, Pima Co., Arizona. HT in LACM. 286i.

j. **c. albasuffusa** R. Wielgus, D. Wielgus and J. Wielgus. Bull. Allyn Mus., (17): 1-14 (1974). TL — Wahweap Campground, 5 mi. NW of Glen Canyon Dam, Coconino Co., Arizona. HT in AME. 286j

k. **c. reubeni** D. Stallings, Turner and J. Stallings. J. Lepid. Soc., 17: 87 (1963). TL — Hueco Mtns., El Paso Co., Texas. HT probably in YPM. 286k.

l. **c. winkensis** H. A. Freeman. J. Lepid. Soc., 19: 87 (1965). TL — Wink, Winkler Co., Texas. HT in AMNH. 286l.

m. **c. wilsonorum** D. Stallings and Turner. Lepid. News, 11: 129 (1958). TL — Ciudad Victoria, Tamaulipas, Mexico. HT in YPM. 286m.

n. **c. louiseae** H. A. Freeman. J. Lepid. Soc., 17: 95 (1963). TL — 16 mi. N of Del Rio, Val Verde Co., Texas. HT in AMNH. 286n.

o. **c. kendalli** H. A. Freeman. J. Lepid. Soc., 19: 83 (1965). TL — San Antonio, Bexar Co., Texas. HT in AMNH. 286o.

3. **cofaqui** (Strecker) *AEGIALE*. Proc. Acad. Nat. Sci. Philadelphia, 28: 148 (1876). TL — "Georgia", but stated (in error?) to be Boca Grande, Lee Co., Florida by H. A. Freeman, Suppl. Lepid. Soc., (1): 23 (1969). HT in FMNH. 287.

4. **harrisi** H. A. Freeman. American Mus. Novitates, (1711): 2 (1955). TL — Stone Mtn., De Kalb Co., Georgia. HT in AMNH. 288.

5. **streckeri** (Skinner) *AEGIALE*. Canadian Ent., 27: 179 (1895). TL — "So. Arizona." ST's in FMNH and CM. 289.

6. **texanus** Barnes and McDunnough Contrib. Nat. Hist. Lepid. N. America, 1: 39 (1912). TL — Kerrville, Kerr Co., Texas. HT in USNM.

a. **t. texanus** Barnes and McDunnough Contrib. Nat. Hist. Lepid. N. America, 1: 39 (1912). TL — Kerrville, Kerr Co., Texas. HT in USNM. 290a.

= *albocincta* Holland. Ann. Carnegie Mus., 19: 159 (1930). TL not stated, but restricted to "southwestern Texas" by Holland, Butt. Book, rev. ed.: 402 (1931). HT in CM.

b. **t. leussleri** Holland. Ann. Carnegie Mus., 20: 262 (1931). TL — "sand-hills of Nebraska", restricted to nr. Valentine, Cherry Co., by H. A. Freeman, Ent. News, 55: 104 (1944). HT in CM. 290b.

7. **ursus** Poling. Ent. News, 13: 97 (1902). TL — "Pinal Co., Arizona", but stated to be Santa Catalina Mtns., Pima Co., by H. A. Freeman, Suppl. Lepid. Soc., (1): 25 (1969). HT in USNM.

a. **u. ursus** Poling. Ent. News, 13: 97 (1902). TL — "Pinal Co., Arizona", but stated to be Santa Catalina Mtns., Pima Co., by H. A. Freeman, Suppl. Lepid. Soc., (1): 25 (1969). HT in USNM. 291a.

b. **u. violae** D. Stallings and Turner. Lepid. News, 10: 4 (1956). TL — Carlsbad Caverns Natl. Park, Eddy Co., New Mexico. HT in YPM. 291b.

c. **u. deserti** R. Wielgus, D. Wielgus and J. Wielgus. Bull. Allyn Mus., (9): 1 (1972). TL — 0.5.-1.5 mi. N of Camp Creek, Maricopa Co., Arizona. HT in LACM. 291c.

Genus LXXXIX: **Stallingsia** H. A. Freeman

Lepid. News, 12: 87 (1959). Type-species by original designation *Megathymus maculosus* H. A. Freeman, American Mus. Novitates, (1711): 10 (1955).

1. **maculosus** (H. A. Freeman) *MEGATHYMUS*. American Mus. Novitates, (1711): 10 (1955). TL — Kingsville, Kleberg Co., Texas. HT in AMNH [see **Note 171**]. 292.

Superfamily **PAPILIONOIDEA** Latreille

Gen. Crustaceorum et Insectorum, 4: 187 (1809) [see **Notes 1** and **172**].

Family **PAPILIONIDAE** Latreille

Gen. Crustaceorum et Insectorum, 4: 187 (1809) [see **Note 172**].

Subfamily **Parnassiinae** Duponchel

Hist. Nat. Lepid., Suppl. 1: [1835] [see **Note 173**].

Tribe **Parnassiini** Duponchel

Hist. Nat. Lepid., Suppl. 1: [1835] [see **Notes 1** and **173**].

Genus XC: **Parnassius** Latreille

Nouv. Dict. Hist. Nat., 24: 185, 199 (1804). Type-species by monotypy *Papilio apollo* Linnaeus, Syst. Nat., ed. 10, 1: 465 (1758) [see **Notes 173** and **174**].

= *Doritis* Fabricius, Mag. f. Insecktenk. (Illiger), 6: 283 (1807). Type-species by designation of Dalman, K. Svenska VetensAkad. Handl., [1816]: 60 (1816), *Papilio apollo* Linnaeus, Syst. Nat., ed. 10, 1: 465 (1758).

= *Therius* Billberg, Enum. Ins. Mus. Billberg.: 75 (1820). Type-species by designation of Hemming, Entomologist, 66: 199 (1933), *Papilio apollo* Linnaeus, Syst. Nat., ed. 10, 1: 465 (1758).

= *Tadumia* Moore, Lepid. Indica, 5: 116 [1902]. Type-species by original designation *Parnassius acco* G. R. Gray, Cat. Lepid. Ins. Coll. British Mus., 1 (Papilionidae): 76 (1852).

= *Kailasius* Moore, Lepid. Indica, 5: 118 [1902]. Type-species by original designation *Parnassius charltonius* G. R. Gray, Cat. Lepid. Ins. British Mus., 1 (Papilionidae): 77 (1852).

= *Koramius* Moore, Lepid. Indica, 5: 120 [1902]. Type-species by original designation *Parnassius delphius* Eversmann, Bull. Soc. Imp. Nat. Moscou, 16: 541 (1843).

= *Lingamius* Bryk, Das Thierreich, 65: 538-540 (1935). Type-species by original designation *Parnassius hardwickii* G. R. Gray, Zool. Miscell., 1: 32 (1831) [see **Note 175**].

= *Eukoramius* Bryk, Das Thierreich, 65: 630, 673-674 (1935). Type-species by original designation *Parnassius imperator* Oberthür, Bull. Soc. Ent. France, [1883]: lxxvii (1883) [see **Note 176**].

*1. **eversmanni** Ménétriés. *in* Siemenikov, Russk. Faun.: pl. 4, fig. 5 (1849). TL not stated (Russia). Type may be in Leningrad [see **Notes 75** and **177**].

a. **e. thor** Hy. Edwards. Papilio, 1: 4 (1881). TL — Yukon R., Alaska, about 100 mi. from mouth. HT in AMNH [see **Note 178**]. 293a.

= *meridionalis* Eisner. Zool. Meded., 53: 109 (1978). TL — Pink Mt., British Columbia. HT in Rijksmus. Nat. Hist. (Leiden) [see **Note 179**].

= ab. "kohlsaati" Gunder. Pan-Pac. Ent., 8: 123 (1932). TL — McKinley Natl. Park, Alaska. HT in AMNH.

2. **clodius** Ménétriés. Enum. Corp. Anim. Mus. Petropolitana, 1: 7 (1855). TL — "California", restricted to Bear Valley, Marin Co., California, by J. and S. Shepard, *in* Howe, Butts. N. America: 404 (1975). Type may be in Leningrad.

a. **c. clodius** Ménétriés. Enum. Corp. Anim. Mus. Petropolitana, 1: 7 (1855). 294a.

TL — "California", restricted to Bear Valley, Marin Co., California, by J. and S. Shepard, *in* Howe, Butts. N. America: 404 (1975). Type may be in Leningrad [see **Note 180**].

= ab. "castus" Bryk. Arch. f. Naturges., 79(A): 2 (1913). TL not stated. HT should be in ZMHU.

= ab. "sulfureus" Gunder. Pan-Pac. Ent., 8: 124 (1932). TL — Davis Creek, Modoc Co., California. HT in AMNH.

b. c. **strohbeeni** Sternitzky. Proc. N. England Zool. Club, 23: 82-83 (1945). TL — Santa Cruz, California. HT in MCZ. **294b.**

= ab. "dodgei" Gunder. Pan-Pac. Ent., 8: 123-124 (1932). TL — Santa Cruz Hills, Santa Cruz, California. HT in AMNH.

c. c. **sol** Bryk and Eisner. Parnassiana, 2: 97 (1932). TL — "Nevada" (Sierra Nevada?). HT in Rijksmus. Nat. Hist. (Leiden). **294c.**

d. c. **baldur** W. H. Edwards. Trans. American Ent. Soc., 6: 12 (1877). TL — "Yosemite, Sierra Nevada, California", restricted to Tioga Pass, California by F. M. Brown, Trans. American Ent. Soc., 101: 5 (1975). LT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 101: 5 (1975) [see **Notes 181** and **182**]. **294d.**

= f. "lusca" Stichel. *in* Wytsman, Gen. Ins., 58: 14 (1907). TL — "California". HT from Seitz colln. (Frankfort?).

= ab. "lorquini" Oberthüur. Etudes Ent., 14: 7 (1891). TL — "California". HT may be in USNM [see **Note 22**], BM or MNHN.

= ab. "binigrimaculellus" Gunder. Ent. News, 37: 8-9 (1926). TL — Gold L., Sierra Co., California. HT in AMNH.

e. c. **claudianus** Stichel. *in* Wytsman, Gen. Ins., 58: 14 (1907). TL — "Washington, British Columbia, Vancouver I.", probably western Washington, according to J. and S. Shepard, *in* Howe, Butts. N. America: 405 (1975). Loc. of type not known, but only specimens definitely cited in original description were from British Columbia and figured by Verity, Rhop. Palaearctica, 2: pl. 22, figs. 17-19 (1907). **294e.**

= *baldus* Ehrmann. Lepidoptera, 2: 29 (1918). TL — Olympic Mtns., Washington. HT in CM.

= *kallias* Ehrmann. Lepidoptera, 2: 41 (1918). TL — Olympic Mtns., Washington. HT in CM. Proposed, without explanation, to replace *baldus* Ehrmann (see above).

= f. "excelsior" Eisner. Zool. Meded., 35: 88 (1957). TL — Illahoe, Kitsap Co., Washington. HT in Rijksmus. Nat. Hist. (Leiden).

f. c. **pseudogallatinus** Bryk. Arch. f. Naturgesch., 79(A)3: 3 (1913). TL — "British Columbia". ST's in ZMHU and probably BM. **294f.**

= *hel* Eisner. Zool. Meded., 34: 243-244 (1956). TL — Stevens Pass, Cascade Mtns., Washington. HT in Rijksmus. Nat. Hist. (Leiden).

= f. "grundi" Eisner. Zool. Meded., 34: 243 (1956). TL — Stevens Pass, Cascade Mtns., Washington. HT in Rijksmus. Nat. Hist. (Leiden).

g. c. **incredibilis** Bryk. Parnassiana, 2: 33 (1932). TL — Mt. St. Elias, Alaska. HT in BM. **294g.**

h. c. **altaurus** Dyar. Proc. Ent. Soc. Washington, 5: 290-291 (1903). TL — Alturus L., Idaho. HT in USNM [see **Note 183**]. **294h.**

= *shepardi* Eisner. Zool. Meded., 41: 145-146 (1966). TL — Wawawai, Snake R., Washington. HT in Rijksmus. Nat. Hist. (Leiden).

i. c. **gallatinus** Stichel. *in* Wytsman, Gen. Ins., 58: 15 (1907). TL — Gallatin R., Montana. ST's in AMNH. **294i.**

= *immaculata* Skinner. Ent. News, 22: 108 (1911). TL — Old Faithful Geyser, Yellowstone Natl. Park, Wyoming. HT in CM.

j. c. **menetriesi** Hy. Edwards. Proc. California Acad. Sci., 7: 164-165 (1877). TL — Bear Valley, Lake Tahoe and Downieville, California, Mt. Nebo, Utah. ST's in AMNH [see **Note 184**]. **294j.**

*3. **phoebus** (Fabricius) *PAPILIO*. Ent. Syst., 3: 181 (1793). TL — "Siberia". Type lost (Drury specimen) [see **Notes 75** and **99**].

a. **p. behrii** W. H. Edwards. Trans. American Ent. Soc., 3: 11 (1870). TL — near summit of Mt. Lyell, Yosemite Valley, California, NT from Tioga Pass, California. NT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 101: 12 (1975). **295a.**

= *niger* W. G. Wright. Butts. W. Coast: 79 (1905). TL — [Donner] Summit, [Sierra Co.,] California. HT in CAS.

= *astriotes* Fruhstorfer. Soc. Ent. (Stuttgart), 38: 5 (1923). TL — "Sierras, California". HT in Seitz colln. (Stuttgart).

b. **p. sternitzkyi** McDunnough. Canadian Ent., 68: 273-274 (1936). TL — Castle L., Siskiyou Co., California. HT in CNC. **295b.**

c. **p. magnus** W. G. Wright. Butts. W. Coast: 80-81 (1905). TL — Enderby, British Columbia. LT in CAS, designated by Tilden, Occ. Pap. California Acad. Sci., (118): 5 (1975). **295c.**

d. **p. olympiannus** Burdick. Canadian Ent., 73: 115-116 (1941). TL — Hurricane Ridge, Olympic Range, Clallam Co., Washington. HT in CNC [see **Note 185**]. **295d.**

= *guppyi* Wyatt. Zts. Wiener Ent. Ges., 54: 132-133 (1969). TL — Mt. Arrowsmith, Vancouver I., British Columbia. HT in Wyatt colln. (Karlsrühe, Germany).

e. **p. smintheus** Doubleday. Gen. diurn. Lepid., 1: 27 [1847]. TL — "Rocky Mt. States", presumably vic. Banff, Alberta. Type should be in BM [see **Note 186**]. **295e.**

= *sedakovii* Ménétriés. in Siemenikov, Russk. Faun.: pl. 4, fig. 2 (1849). TL — "America". Type probably in Leningrad.

= *rocky* Grum-Grshimailo. *in* Romanov, Mem. Lepid., 4: 175 (1890). TL — "Rocky Mts." Type may be in Leningrad.

= *manitobaensis* Bryk and Eisner. Parnassiana, 3: 51 (1935). TL — End Mt., "Manitoba" [*recte* Alberta, *fide* McDunnough, Canadian Ent., 68: 225 (1936)]. HT in ZMHU.

= alt. f. "nanus" Neumoegen. Ent. Americana, 6: 61-62 (1890). TL — "British Columbia and Montana". ST's in USNM.

= f. "verityi" Ehrmann. Lepidoptera, 2: 30 (1918). TL — "Rocky Mts., British Columbia". Loc. of type not known. Proposed to replace "minor" Verity (see below); preoccupied.

= ‡f. "minor" Verity. Rhop. Palaearctica: pl. 16, fig. 21 [1907]. TL — "Rocky Mts., British Columbia. Loc. of type not known. Preoccupied by *minor* Staudinger, Stettiner Ent. Ztg., 47: 138 (1886).

= f. "ernestinae" Bryk and Eisner. Parnassiana, 3: 51 (1935). TL — Ptarmigan Pass, British Columbia. HT in Rijksmus. Nat. Hist. (Leiden).

f. **p. xanthus** Ehrmann. Lepidoptera, 2: 21-22 (1918). TL — "Moron" *[sic.]* (=Moscow), Idaho. ST's in CM. **295f.**

= *idahoensis* Bryk and Eisner. Parnassiana, 1: 5 (1931). TL — Wallace, Idaho. HT in Rijksmus. Nat. Hist. (Leiden).

= *montanulus* Bryk and Eisner. Parnassiana, 3: 55 (1935). TL — Tura, Montana. HT in Rijksmus. Nat. Hist. (Leiden).

= *maximus* Bryk and Eisner. Parnassiana, 5: 7 (1937). TL — Judith Mtns., Montana. HT in Rijksmus. Nat. Hist. (Leiden).

= ab. "mendicus" Stichel. *in* Wytsman, Gen. Ins., 58: 20 (1907). TL — "Montana, Brit. Columbia, Colorado". ST's should be in ZMHU.

= ab. "pseudocorybas" Verity. Rhop. Palaearctica: 107 (1907). TL — "Colorado, Rocky Mtns." Loc. of types not known.

g. **p. sayii** W. H. Edwards. Proc. Ent. Soc. Philadelphia, 2: 78 (1863). TL — "Pike's Peak", restricted to Running Creek Field Station, Elbert Co., Colorado, by F. M. Brown, Trans. American Ent. Soc., 101: 9 (1975). NT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 101: 9 (1975) [see **Notes 187** and **188**]. **295g.**

= *polus* Ehrmann. Lepidopterist, 1: 54 (1917). TL — Ashcroft, Pitkin Co., Colorado. ST's in CM [see **Note 189**].

= *montanus* Ehrmann. Lepidoptera, 2: 29-30 (1918). TL — Bullion Peak, Colorado. ST's in CM.

= *utahensis* Rothschild. Novitates Zool., 25: 233 (1918). TL — Park City, Utah. ST's in BM.

= *sordellus* Fruhstorfer. Soc. Ent. (Stuttgart), 38: 5 (1923). TL — "North America". Types may be in Seitz colln. (Stuttgart).

= *aristion* Fruhstorfer. Soc. Ent. (Stuttgart), 38: 5 (1923). TL — "Colorado". Types may be in Seitz colln. (Stuttgart).

= *catullius* Fruhstorfer. Soc. Ent. (Stuttgart), 38: 5 (1923). TL — "Colorado". Types may be in Seitz colln. (Stuttgart).

= *hollandi* Bryk and Eisner. Parnassiana, 3: 53 (1935). TL — La Sal Mtns., Turpus Valley, "California" [*recte* Utah]. HT in ZMHU [see **Note 190**].

= *dakotaensis* Bryk and Eisner. Parnassiana, 3: 55 (1935). TL — Black Hills, Mt. Roosevelt, S. Dakota. HT claimed to be in Rijksmus. Nat. Hist. (Leiden), but ST series apparently split between that institution and ZMHU.

= *rotgeri* Bang-Haas. Parnassiana (Neubeschr.), 6: 20 (1938). TL — Mt. Evans, Clear Creek Co., Colorado. ST's should be in ZMHU.

= *rubina* Wyatt. Zts. Wiener Ent. Ges., 46: 145-146 (1961). TL — Liberty Peak, Ruby Mtns., Elko Co., Nevada. HT in Wyatt colln. (Karlsrühe, Germany).

= f. "hermodur" Hy. Edwards. Papilio, 1: 4 (1881). TL — "Colorado". HT in AMNH [see **Note 191**].

= f. "reducta" Bang-Haas. Parnassiana (Neubeschr.), 6: 20 (1938). TL — Mt. Evans, Clear Creek Co., Colorado. HT should be in ZMHU.

= f. "discocircumcincta" Eisner. Zool. Meded., 33: 151 (1955). TL — "Colorado". HT in Rijksmus. Nat. Hist. (Leiden) [see **Note 192**].

= ‡ab. "nigerrimus" Verity. Rhop. Palaearctica: 108 (1907). TL — "Rocky Mtns., British Columbia", but if this accurate, then ab. would refer to *p. smintheus (q. v.)*. Preoccupied by "nigerrimus" Verity, Rhop. Palaearctica: 107 (1907).

= ab. "mariae" Bryk. Soc. Ent., 27: 58 (1912). TL not stated. HT should be in ZMHU.

h. **p. pseudorotgeri** Eisner. Zool. Meded., 41: 144 (1966). TL — Elwood Pass, Rio Grande Co., Colorado. HT in Rijksmus. Nat. Hist. (Leiden) [see **Note 193**]. **295h.**

i. **p. apricatus** Stichel. Berliner Ent. Zts., 51: 87 (1906). TL — "Kadiak" (Kodiak) I., Alaska. ST's in ZMHU. **295i.**

j. **p. golovinus** Holland. Ann. Carnegie Mus., 19: 155-156 (1930). TL — Golovin Bay and vic., NW Alaska. ST's in CM. **295j.**

k. **p. alaskensis** Eisner. Zool. Meded., 34: 244-245 (1956). TL — Mt. "Kinley" (McKinley) Natl. Pk., Alaska. HT in AMNH [see **Note 194**]. **295k.**

l. **p. elias** Bryk, Parnassiana, 5: 31-32 (1934). TL — Mt. St. Elias, Alaska. HT in Peebles colln. (London) (ZMHU? BM?). **295l.**

m. **p. yukonensis** Eisner. Zool. Meded., 43: 175 (1969). TL — 5 mi. SW Haines Junction, "Alaska" (Yukon Territory). HT in Rijksmus. Nat. Hist. (Leiden). **295m.**

Subfamily **PAPILIONINAE** Latreille

Gen. Crustaceorum et Insectorum, 4: 187 (1809) [see **Notes 1** and **172**].

Tribe **Troidini** Ford

Trans. Roy. Ent. Soc. London, 94: 201, 213, 214 (1944).

Genus XCI: **Parides** Hübner

Verz. bekannt. Schmett., (6): 87 [1819]. Type-species by designation of Scudder, Proc. American Acad. Arts. & Sci., 10: 241 (1875), *Princeps echeltus* Hübner, Samml. exot. Schmett., 1: pl. [126] [1815].

= *Hectorides* Hübner, Index. exot. Lepid.: [1], [2] [1821]. Type-species by designation of Scudder, Proc. American Acad. Arts. & Sci., 10: 184 (1875), *Papilio agavus* Drury, Ill. Nat. His., 3: index et 11 [1782].

= *Endopogon* Lacordaire, Ann. Soc. Ent. France, 2: 384 (1833). Type-species by designation of Scudder, Proc. American Acad. Arts & Sci., 10: 162 (1875), *Papilio sesostris* Cramer, Uitl. Kapellen, 3: 34 [1779].

= *Ascanides* Geyer, *in* Hübner, Zutr. z. Samml. exot. Schmett., 5: 32 [1837]. Type-species by monotypy *Papilio triopas* Godart, Encyc. Method., 9: 33 [1819] (= *Parides ygdrasilla* Hemming, Entom., 68: 41, 1935).

= *Blakea* Grote, Trans. American Ent. Soc., 5: 118 (1875). Type-species by original designation *Papilio gundlachianus* C. & R. Felder, Verh. zool.-bot. Ges. Wien, 14: 294 (1864).

*1. **eurimedes** (Stoll) *PAPILIO. in* Cramer, Uitl. Kapellen, 4: 199 [1780]. TL — "Berbices". Type probably lost [see **Note 15**].

= ‡*arcas* (Cramer) *PAPILIO.* Uitl. Kapellen, 4: 174 [1777]. — "Brasil". Type may be in BM or lost [see **Note 7**]. Preoccupied by *Papilio arcas* Drury, Ill. Nat. Hist., 1: index et 38 [1773].

a. **e. mylotes** (Bates) *PAPILIO.* Trans. Ent. Soc. London, (2) 2: 346 (1861). **296a.** TL — "Nicaragua". ST's in BM.

= *caleli* (Reakirt) *PAPILIO.* Proc. Ent. Soc. Philadelphia, 2: 138 (1863). TL — "Guatemala". Putative type in FMNH.

= *tonila* (Reakirt) *PAPILIO.* Proc. Ent. Soc. Philadelphia, 2: 140 (1863). TL — "Guatemala". Putative type in FMNH.

= *alcamedes* (C. & R. Felder) *PAPILIO.* Reise . . . Novara, Lepid. Rhop., 1:36 [1865]. TL — "Mexico". ST's should be in BM.

= *aristomenes* (C. & R. Felder) *PAPILIO.* Reise . . . Novara, Lepid. Rhop., 1: 38 [1865]. TL — "Mexico". ST's should be in BM.

Genus XCII: **Battus** Scopoli

Introd. Hist. Nat.: 433 (1777). Type-species by designation of Lindsey, Ann. Ent. Soc. America, 18: 80 (1925), *Papilio polydamas* Linnaeus, Syst. Nat., ed. 10, 1: 460 (1758).

= *Laertias* Hübner, Verz. bekannt. Schmett., (6): 84 [1819]. Type-species by designation of Scudder, 4th Ann. Rept. Peabody Acad. Sci., [1871]: 64 (1872), *Papilio philenor* Linnaeus, Mantissa Plant., 2: 535 (1771) [see **Note 195**].

= *Ithobalus* Hübner, Verz. bekannt. Schmett., 6: 88 [1819]. Type-species by designation of Scudder, Proc. American Acad. Arts. & Sci., 10: 198 (1875), *Papilio polydamas* Linnaeus, Syst. Nat., ed. 10, 1: 460 (1758).

1. **philenor** (Linnaeus) *PAPILIO.* Mantissa Plant., 2: 535 (1771). TL — "America". Type probably lost [see **Note 000**].
   a. **p. philenor** (Linnaeus) PAPILIO. Mantissa Plant.: 535 (1771). TL — "America". Type probably lost [see **Note 196**]. **297a.**
      = *astinous* (Drury) *PAPILIO.* Ill. Nat. Hist., 1: 21 [1773]. TL — "New York, Maryland, Virginia". Types probably lost [see **Notes 99** and **197**].
         = ab. "obsoleta" (Ehrmann) *PAPILIO.* Canadian Ent., 32: 348 (1900). TL — "SW Pennsylvania". HT in CM.
         = ab. "wasmuthi" (Weeks) *PAPILIO.* Jour. New York Ent. Soc., 9: 82 (1901). TL — Brooklyn, New York. HT in MCZ.
   b. **p. hirsuta** (Skinner) *PAPILIO.* Ent. News, 19: 149 (1908). TL — Plumas Co., Calfornia. ST's in CM [see **Note 198**]. **297b.**
      = ab. "inghami" (Gunder) *PAPILIO.* Ent. News, 38: 268 (1927). TL — Fairfax, California. HT should be in AMNH.

3. **polydamas** (Linnaeus) *PAPILIO.* Syst. Nat., ed. 10, 1: 460 (1758). TL — "Surinam". Loc. of type not known.
   a. **p. polydamas** (Linnaeus) *PAPILIO.* Syst. Nat., ed. 10, 1: 460 (1758). TL — "Surinam". Loc. of type not known [see **Note 199**]. **298a.**
   b. **p. lucayus** (Rothschild & Jordan) *PAPILIO.* Novitates Zool., 13: 521-522 (1906). TL — "Bahamas". HT in BM. **298b.**

*3. **devilliers** (Godart) *PAPILIO.* Mem. Soc. Linn. Paris, 2: pl. 1, figs. 3, 4 (1822). TL — "Cuba". Type should be in MNHN. **299.**

Tribe **Leptocircini** W. F. Kirby

Handb. Lepid. 1, Butt. 2: 307 (1896).
= Teinopalpidae Grote, Trans. American Ent. Soc., 5: 118 (1899).
= Graphiini Ford, Trans. Roy. Ent. Soc. London, 94: 201, 213, 215-216 (1944).

Genus XCIII: **Eurytides** Hübner

Samml. exot. Schmett., 2: pl. [92] [1821]. Type-species by monotypy *Eurytides iphitas* Hübner, Samml. exot. Schmett., 2: pl. [92] [1821] [see **Note 200**].
= *Protesilaus* Swainson, Zool. Illustr., (2)2: pl. 93 (1832). Type-species by original designation *Papilio protesilaus* Linnaeus, Syst. Nat., ed. 10, 1: 463 (1758).
= *Cosmodesmus* Haase, Bibl. Zool. Heft 8 (Erster Th.) (Lief 1): 15 [1891]. Type-species by designation of Hemming, Annot. Lepid., (4): 135 (1964) *Papilio protesilaus* Linnaeus, Syst. Nat., ed. 10, 1: 463 (1758).

1. **marcellus (Cramer)** *PAPILIO.* Uitl. Kappellen, 2: 4 [1777]. TL not stated. Type probably lost [see **Note 7**]. **300.**
   = *ajax* (Linnaeus) *PAPILIO.* Syst. Nat., ed. 10, 1: 462 (1758, *in partim*). TL — "America boreali". Name suppressed by I. C. Z. N. (Op. 286) [see **Note 201**].
   = *telamonides* (C. & R. Felder) *PAPILIO.* Reise. . . Novara, Lepid. Rhop., 1: 60 [1864]. TL — "United States". ST's in Vienna and BM.
      = f. "walshii" (W. H. Edwards) *PAPILIO.* Butt. N. America, 1: pl. *Pap.* 1, figs. 1-5 (1872). TL not stated. Type not designated [see **Note 202**].
      = f. "floridensis" (Holland) *PAPILIO.* Butt. Book: 307 (1898). TL by implication — "along St. Johns River, Florida". ST's in CM.
      = f. "lecontei" (Rothschild & Jordan) *PAPILIO.* Novitates Zool., 13: 690 (1906). TL — Nashville, Tennessee. ST's in BM.
         = ab. "abbotii" (W. H. Edwards) *PAPILIO.* Butt. N. America, 1: pl. *Pap.* 1, fig. 6 (1872). TL not stated. Type not designated [see **Note 202**].

= ab. "broweri" (Gunder) *PAPILIO.* Ent. News, 38: 269 (1927). TL — Willard, Missouri. HT in USNM.

= ab. "carolinianus" (Holland) *PAPILIO.* Butt. Book (rev. ed.): 321 (1931). TL by implication — "Carolina". Type does not exist [see **Note 203**]. name may in fact be a *nomen nudum.*

= ab. "pricei" (Field) *IPHICLIDES.* Jour. Ent. & Zool., 28: 18-19 (1936). TL — Greenwood Co., Kansas. HT may be in USNM.

= ab. "nigrosuffusa" (Field) *IPHICLIDES.* Jour. Ent. & Zool., 28: 19 (1936). TL — Lawrence, Kansas. HT should be in USNM.

2. **philolaus** (Boisduval) *PAPILIO.* Spec. Gen. Lepid., 1: 256 (1836). TL — "Mexico". HT may be in MNHN or BM. **301.**

= ‡*xanticles* (Rogenhofer) *PAPILIO. in* Staudinger, Exot. Tagf., 1: 305 (1888). Misidentification: not *Papilio xanticles* Bates, Proc. Zool. Soc. London, [1863]: 241 (1863).

= ‡*ajax* (Eimer) *PAPILIO.* Artb. Verwandtsch. Schmett.: 212 (1889). TL — "Mexico". Loc. of type not known. Preoccupied by (and possible misidentification of) *Papilio ajax* Linnaeus, Syst. Nat., ed. 10, 1: 462 (1758).

= ‡f. "nigrescens" (Eimer) *PAPILIO.* Artb. Verwandtsch. Schmett.: 213 (1889). TL — "Honduras". Loc. of type not known. Preoccupied by *nigrescens* Eimer, Artb. Verwandtsch. Schmett.: 88 (1889).

= f. "niger" (Eimer) *PAPILIO.* Artb. Verwandtsch. Schmett.: 214 (1889). TL — "Honduras". Loc. of type not known.

= f. "vazquezae" Beutelspacher. Rev. Soc. Mexicana Lepid., 2: 61 (1976). TL — various localitites in Mexico. ST's in UNAM (Mexico) and de la Maza colln.

= ab. "felicis" (Fruhstorfer) *PAPILIO.* Soc. Ent.: 25 (1904). TL — "Honduras". HT may be in BM.

*3. **celadon** (Lucas) *PAPILIO. in* Guérin-Méneville, Rev. Zool., (2)4: 180 (1852). TL — "Amer. sept." Type may be in MNHN [see **Note 204**]. **302.**

= ‡*sinon* (Cramer) *PAPILIO.* Uitl. Kapellen, 4: 57 [1780]. *in partim.* TL — "Amer. sept. & Jamaica". Type may be lost [see **Note 7**]. Preoccupied by *sinon* Poda, Ins. Mus. Graec.: pl. 2, fig. 1 (1761).

Tribe **Papilionini** Latreille

Gen. Crustaceorum et Insectorum, 4: 187 (1809). [see **Notes 1, 172** and **205**].

Genus XCIV: **Papilio** Linnaeus

Syst. Nat., ed. 10, 1: 458 (1758). Type-species by designation of Latreille, Consid. Gen. Anim. Crust. Arach. Ins.: 440, 350 (1810), *Papilio machaon* Linnaeus, Syst. Nat., ed. 10, 1: 462 (1758).

= *Amaryssus* Dalman, K. Svenska VetensAkad. Handl., Stockholm, designation *Papilio machaon* Linnaeus, Syst. Nat., ed. 10, 1: 462 (1758).

= *Aeronauta* Berge, Schmetterlingsbuch: 19, 106-109 (1842). Type-species be designation of Hemming, Entomologist, 67: 38 (1934), *Papilio machaon* Linnaeus, Syst. Nat., ed. 10, 1: 462 (1758).

= *Achivus* W. F. Kirby, *in* Allen's Nat. Libr. Lepid. 1, Butt. 2: 286 (1896). Type-species by original designation *Papilio machaon* Linnaeus, Syst. Nat., ed. 10, 1: 462 (1758).

*1. **polyxenes** Fabricius. Syst. Ent.: 444 (1775). TL — "America". Type may be lost [see **Note 206**].

a. **p. asterius** Stoll. *in* Cramer, Uitl. Kapellen, 4: 194 [1782]. TL — New York, Carolina, Virginia. Type may be lost [see **Notes 207** and **208**]. **303a.**

= *ampliata* Ménétriés. Enum. Corp. Anim. Mus. Petropolitana, Lepid.

2: 99 (1857). TL — "Amer. sept. par Motschulsky", probably in Mexico. Type may be in Leningrad.

= *asterioides* Reakirt. Proc. Acad. Nat. Sci. Philadelphia, [1866]: 331 (1866). TL — "Mexico". HT in ANSP [see Note 209].

= *curvifascia* Skinner. Ent. News, 13: 183 (1902). TL — Rincon, New Mexico. HT in CM.

= f. "viridis" Cockerell. Entomologist, 22: 199 (1889). TL not stated. No type designated (a variety of the pupa).

= ♀f. "alunata" Skinner and Aaron. Canadian Ent., 21: 126 (1889). TL not stated but probably Philadelphia, Pennsylvania. HT may be in CM.

= f. "pseudoamericus" F. M. Brown. Ent. News, 53: 281 (1942). TL — Troy, Illinois. HT in Meiners collection, St. Louis, Missouri.

= f. "subampliata" Dufrane. Bull. Ann. Soc. Ent. Belgique, 82: 106 (1946). TL — Temple, Pennsylvania. HT probably in Tervuren (Belgium).

= ab. "calverleyi" Grote. Proc. Acad. Nat. Sci. Philadelphia, 2: 441 (1864). TL — New Lots, Queens Co., New York. HT may be in AMNH or Albany.

= ab. "mediocauda" Eimer, emendation. Artb. Verwandtsch. Schmett., 2: 119, 136 (1895) [see Note 210].

= ab. "semialba" Ehrmann. Canadian Ent., 32: 348 (1900). TL — "S. W. Pennsylvania". HT in CM.

= ab. "ehrmanni" Ehrmann. Bull. Brooklyn Ent. Soc., 20: 84 (1925). TL — Pittsburgh, Pennsylvania. HT in CM.

= ab.♀ "streckeri" Holland. Ann. Carnegie Mus., 17: 310 (1927). TL not stated. HT should be in FMNH (Strecker's figure is of the type).

= ‡ab. "forsythae" Wood. Ent. News, 48: 273 (1937). TL — Florida City, Florida. HT in AMNH. Preoccupied by *forsythae* Gunder, Canadian Ent., 65: 171 (1933).

2. **joanae** J. R. Heitzman. Jour. Res. Lepid., 12: 3-7 (1974 ["1973"]). TL — Warsaw, Benton Co., Missouri. HT in AMNH. **304.**

3. **rudkini** F. & R. Chermock. Bull. So. California Acad. Sci., 36: 8 (1937). TL — Ibanpah Mtns., California. HT in LACM. Raising J. A. Comstock ab. name [see Note 211]. **305.**

= f. "clarki" F. and R. Chermock. Bull. So. California Acad. Sci., 36: 8-9 (1937). TL — Ibanpah Mtns., California. HT in LACM.

= f. "comstocki" F. and R. Chermock. Bull. So. California Acad. Aci., 36: 10 (1937). TL — Ibanpah Mtns., California. HT in LACM.

4. **kahli** F. and R. Chermock. Bull. So. California Acad. Sci., 36: 12-13 (1937). TL — Riding Mtns., Manitoba. HT stated to be in CM [see Note 212]. **306.**

5. **brevicauda** Saunders. *in* Packard, Guide Ins.: 278 (nota) (1869). TL — Newfoundland. HT in CNC.

a. **b. brevicauda** Saunders. *in* Packard, Guide Ins.: 278 (nota) (1869). TL — Newfoundland. HT in CNC [see Note 213]. **307a.**

= *anticostiensis* Strecker. Lepid. Rhop. Het.: 10 (1873). TL — Anticosti Isl. HT in FMNH.

b. **b. gaspeensis** McDunnough. Canadian Ent., 66: 84 (1934). TL — Mt. Lyall, Gaspe Co., Quebec. HT in CNC. **307b.**

c. **b. bretonensis** McDunnough. Canadian Ent., 71: 157-158 (1939). TL — Baddeck, Nova Scotia. HT in CNC. **307c.**

6. **bairdii** W. H. Edwards. Proc. Ent. Soc. Philadelphia, 6: 200 (1869). TL — "Arizona", restricted to Fort Whipple, nr. Prescott, Arizona, by F. M. Brown, Trans. American Ent. Soc., 101: 14-15 (1975). NT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 101: 13-15 (1975). **308.**

= utahensis Strecker. Lepid. Rhop. Het.: 128 (1878). TL — "Utah". HT in FMNH.

= f. "hollandi" W. H. Edwards. Canadian Ent., 24: 50 (1892). TL — "W. Colorado", restricted to Glenwood Springs, Garfield Co., Colorado, by F. M. Brown, Trans. American Ent. Soc., 101: 17-18 (1975). LT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 101: 16-18 (1975).

= f. "brucei" W. H. Edwards. Canadian Ent., 27: 239 (1895). TL — "Colorado", restricted to Glenwood Springs, Garfield Co., Colorado, by F. M. Brown, Trans. American Ent. Soc., 101: 19-21 (1975). LT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 101: 20-21 (1975).

7. **oregonius** W. H. Edwards. Trans. American Ent. Soc., 5: 208 (1876). TL — "Columbia River", nr. The Dalles, Oregon; NT locality is Hepner, Oregon, designated by F. M. Brown, Trans. American Ent. Soc., 101: 22-24 (1975). NT in AMNH, designated by F. M. Brown, Trans. American Ent. Soc., 101: 22-24 (1975).

a. o. **oregonius** W. H. Edwards. Trans. American Ent. Soc., 5: 208 (1876). TL — "Columbia River", nr. The Dalles, Oregon; NT locality is Hepner, Oregon, designated by F. M. Brown, Trans. American Ent. Soc., 101: 22-24 (1975). NT in AMNH, designated by F. M. Brown, Trans. American Ent. Soc., 101: 22-24 (1975) [see **Note 214**]. **309a.**

b. **o. dodi** McDunnough. Canadian Ent., 71: 216-217 (1939). TL — Red Deer River, 50 mi. NE Gleichen, Alberta. HT in CNC. **309b.**

*8. **machaon** Linnaeus. Syst. Nat., ed. 10, 1: 462 (1758). TL not stated. Loc. of type not known [see **Note 75**].

a. **m. aliaska** Scudder. Proc. Boston Soc. Nat. Hist., 12: 407 (1869). TL — Nulato, Alaska. HT should be in MCZ. **310a.**

= *joannisi* Verity. Rhop. Palaearctica: pl. 10, fig. 17 (1907). TL — Nulato, Alaska. HT in Verity collection.

= *petersii* A. H. Clark. Proc. U. S. Natl. Mus., 81: 8-9 (1932). TL — Koyukuk River, Alaska. HT in USNM.

b. **m. hudsonianus** A. H. Clark. Proc. U. S. Natl. Mus., 81: 6-7 (1932). TL — Kettle Rapids, Manitoba, and Hymers, Ontario. ST's in USNM. **310b.**

= *avinoffi* F. and R. Chermock. Bull. So. California Acad. Sci., 36: 11-12 (1937). TL — Whirlpool River, Riding Mtns., Manitoba. HT stated to be in CM.

9. **zelicaon** Lucas. *in* Guérin-Méneville, Rev. Zool., (2)4: 136 (1852). TL — "California". Type may be in MNHN [see **Note 215**].

a. **z. zelicaon** Lucas. *in* Guérin-Méneville, Rev. Zool. (2)4: 136 (1852). TL — "California". Type may be in MNHN [see **Note 215**]. **311a.**

= *californica* Ménétriés. Enum. Corp. Anim. Mus. Petropolitana, Lepid. 3: 69 (1863). TL not stated, but inferred to be California. Type may be in Leningrad [see **Note 216**].

= *chloro* W. G. Wright. Butt. W. Coast: 86 (1905). TL — Colorado Desert, SE California. Type probably destroyed in earthquake.

= ab. "impunctata" Fischer. Soc. Ent. (Stuttgart), 23: 129 (1908). TL not stated. Loc. of type not known. An artificially produced aberration.

= ab. "formosus" Fischer. Soc. Ent. (Stuttgart), 23: 129 (1908). TL not stated. Loc. of type not known. An artificially produced aberration.

= ab. "melanotaenia" Fischer. Soc. Ent. (Stuttgart), 23: 129 (1908). TL not stated. Loc. of type not known. An artificially produced aberration.

= ab. "mcdunnoughi" Gunder. Canadian Ent., 60: 162 (1928).

TL — Waterton Lakes, Alberta. HT in CNC [see **Note 217**].

b. z. **nitra** W. H. Edwards. Papilio, 3: 158, 162 (1883). TL — Judith Mtns., Montana. LT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 101: 24-26 (1975). **311b.**

= f. "gothica" Remington. Postilla, 119: 1-40 (1968). TL — Gothic, Gunnison Co., Colorado. HT in YPM.

10. **indra** Reakirt. Proc. Ent. Soc. Philadelphia, 6: 123 (1866). TL — Pike's Peak, Colorado. HT in ANSP.

a. i. **indra** Reakirt. Proc. Ent. Soc. Philadelphia, 6: 123 (1866). TL — Pike's Peak, Colorado. HT in ANSP. **312a.**

b. **i. minori** Cross. Proc. Colorado Mus. Nat. Hist., 16: 4 (1937). TL — Fruita, Colorado. Type may be in Denver Mus. Nat. Hist. **312b.**

c. **i. pergamus** Hy. Edwards. Proc. California Acad. Sci., 5: 423 (1875). TL — "California". Ht in AMNH. **312c.**

d. i. **kaibabensis** Bauer. Lepid. News, 9: 49-50 (1955). TL — Bright Angel Point, Grand Canyon, Coconino Co., Arizona. HT in USNM. **312d.**

e. i. **fordi** J. A. Comstock and Martin. Bull. S. California Acad. Sci., 54: 144 (1955). TL — Granite Mtns., NE Apple Valley, San Bernardino Co., California. HT in LACM. **312e.**

f. **i. martini** J. and T. Emmel. Ent. News, 77: 57-60 (1966). TL — Gilroy Canyon, Providence Mtns., San Bernardino Co., California. HT in LACM. **312f.**

g. **i. nevadensis** T. and J. Emmel. Pan-Pac. Ent., 47: 220-222 (1971). TL — Jett Canyon, Toiyabe Range, Nye Co., Nevada. HT in LACM. **312g.**

Genus XCV: **Heraclides** Hübner

Verz. bekannt. Schmett., (6): 83 [1819]. Type-species by designation of Scudder, Proc. American Acad. Arts Sci., 10: 187 (1875), *Papilio thoas* Linnaeus, Mantissa Plant., 2: 536 (1771).

= *Calaides* Hübner, Verz. bekannt. Schmett., (6): 86 [1819]. Type-species by designation of Rothschild and Jordan, Novitates Zool., 13: 358 (1906), *Papilio androgeus* Cramer, Uitl. Kapellen, 1: 24 [1775] [see **Note 218**].

=*Thoas* Swainson, Zool. Illustr., (2)3: pl. 121 [1833]. Type-species by tautonymy *Papilio thoas* Linnaeus, Mantissa Plant., 2: 536 (1771).

*1. **thoas** (Linnaeus) *PAPILIO.* Mantissa Plant., 2: 536 (1771). TL — "Surinam". Loc. of type not known.

a. t. **autocles** (Rothschild and Jordan) *PAPILIO.* Novitates Zool., 13: 557-558 (1906). TL — Guerrero, Mexico. HT in BM. **313a.**

= *nealces* (Rothschild and Jordan) *PAPILIO.* Novitates Zool., 13: 558-559 (1906). TL — Muzo, Colombia. HT in BM.

= f. "ochracea" (Beutelspacher) PAPILIO. Rev. Soc. Mexicana Lepid., 2: 63 (1976). TL — Yaxchilan, Chiapas, Mexico. HT in Diaz Frances collection.

= f. "nigrimarginata" (Beutelspacher) *PAPILIO.* Rev. Soc. Mexicana Lepid., 2: 63 (1976). TL — Tajin, Veracruz, Mexico. HT in de la Maza collection.

*b. t. **oviedo** (Gundlach) *PAPILIO. in* Poey, Rep. Fis. Nat. Cuba, 1: 279 (1866). TL — "Cuba". Loc. of type not known. **313b.**

= *epithoas* (Oberthür) *PAPILIO.* Bull. Soc. Ent. France, [1897]: 179 (1897). TL — "Mexico", but stated to be a Cuban specimen by Rothschild and Jordan, Novitates Zool., 13: 557 (1906). HT in BM.

2. **cresphontes** (Cramer) *PAPILIO.* Uitl. Kapellen, 2: 106-107 [1777]. TL — "New York", South Carolina, Jamaica". Loc. of types not known [see **Note 7**]. **314**

= *oxilus* Hübner. Verz. bekannt. Schmett., (6): 83 [1819]. Replacement name for *cresphontes.*

= *pennsylvanicus* (F. & R. Chermock) *PAPILIO* Proc. Pennsylvania Acad. Sci., 19: 38-39 (1945). TL — State College, Pennsylvania. HT in CM.

= f. "melanurus" (Hoffmann) *PAPILIO.* Anal. Inst. Biol. Mexico, 11: 633 (1940). TL — Chilpancingo and Iguala, Guerrero, Mexico. ST's should be in AMNH.

= ab. "maxwelli" (Franck) *PAPILIO.* Bull. Brooklyn Ent. Soc., 14: 3 (1919). TL not given. Loc. of type not known.

= ab. "forsythae" (Gunder) *PAPILIO.* Canadian Ent., 65: 171 (1933). TL — Florida City, Florida. HT in AMNH.

*3. **aristodemus** (Esper) *PAPILIO.* Magaz. Neuest. Ausl. Ins.: 8 (1794). TL — "Cuba". Loc. of type not known.

= *chresphontinus* (Martyn) *PAPILIO.* Psyche: pl. 3, fig. 8; pl. 4, fig. 10 (1797). TL — "Cuba". Loc. of type not known.

= *daphnis* (G. R. Gray) *PAPILIO.* Cat. Lepid. Ins. British Mus., 1 *PAPILIO:* 39 (1852). TL — "West Indies". HT in BM [see **Note 219**].

a. **a. ponceanus** (Schaus) *PAPILIO.* Ent. News, 22: 438 (1911). TL — Miami, Dade Co., Florida. HT in USNM. **315a.**

*4. **andraemon** Hübner. Samml. exot. Schmett., 2: pl. [98], [99] [1823]. TL — "Cuba". Type probably lost [see **Note 9**].

a. **a. bonhotei (E. M. Sharpe)** *PAPILIO.* Proc. Zool. Soc. London, [1900]: 201 (1900). TL — Nassau, Bahamas. HT in BM. **316a.**

5. **ornythion** (Boisduval) *PAPILIO.* Spec. Gén. Lépid., 1: 354 (1836). TL — Yucatan, Mexico. HT probably in BM. **317.**

*6. **astyalus** (Godart) *PAPILIO.* Enc. Meth., 9: 62 [1819]. TL — "Brasil". HT should be in MNHN.

= *lycophron* Hübner. Samml. exot. Schmett., 2: pl. 100 [1823]. TL not stated. Type probably lost or in Vienna [see **Note 9**].

= *mentor* (Dalman) *PAPILIO.* Anal. Ent.: 37 (1823). TL — ?Brasil. Loc. of type not known.

= *pirithous* (Boisduval) *PAPILIO.* Spec. Gen. Lepid., 1: 358 (1836). TL not stated. Loc. of type not known. [see **Note 220**].

= *oebalus* (Boisduval) *PAPILIO.* Spec. Gen. Lepid., 1: 360 (1836). TL not stated. Loc. of type not known.

a. **a. pallas** (G. R. Gray) *PAPILIO.* Cat. Lepid. Ins. British Mus., 1 *Papilio:* 39 (1852). TL — "Oajaca" [Oaxaca], Mexico. HT in BM. [see **Note 221**]. **318a.**

*7. **androgeus** (Cramer) *PAPILIO.* Uitl. Kapellen, 1: 24 [1775]. TL — "Surinam". Loc. of type not known [see **Notes 7** and **222**].

= *polycaon* (Cramer) *PAPLILIO.* Uitl. Kapellen, 3: 17 [1779]. TL — "Surinam". Loc. of type not known [see **Note 7**].

= *piranthus* (Cramer) *PAPILIO.* Uitl. Kapellen, 3: 18 [1779]. TL — "Surinam". Loc. of type not known [see **Notes 7** and **223**].

= *?amosis* (Stoll) *PAPILIO.* Aanhangs. Werk. Pieter Cramers Uitl. Kapellen: 1 [1791]. TL not stated. Loc. of type not known [see **Note 15**]. Name may not apply to this species.

a. **a. epidaurus** (Godman and Salvin) *PAPILIO.* Biol. Cent.-Americana, Lepid. Rhop., 2: 224 (1890). TL not stated. ST's in BM [see **Note 224**]. **319a.**

= ‡f. "ochracea" (Beutelspacher) *PAPILIO.* Rev. Soc. Mexicana Lepid., 2: 65 (1976). TL — Yaxchilan, Chiapas, Mexico. HT in Diaz Frances collection. Preoccupied by *ochracea* Beutelspacher, Rev. Soc. Mexicana Lepid., 2: 63 (1976).

Genus XCVI: **Pterourus** Scopoli

Introd. Hist. Nat.: 433 (1777). Type-species by designation of Scudder, 4th Ann. Rept. Peabody Acad. Sci., [1871]: 64 (1872), *Papilio troilus* Linnaeus,

Syst. Nat., ed. 10, 1: 459 (1758) [see **Notes 225** and **226**].

= *Jasoniades* Hübner. Verz. bekannt. Schmett., (6): 83 [1819]. Type-species by designation of Scudder, Proc. American Acad. Sci., 10: 199 (1875), *Papilio turnus* Linnaeus, Mantissa Plant., 2: 536 (1771) (=*Papilio glaucus* Linnaeus, Syst. Nat., ed. 10, 1: 460 (1758)) [see **Note 227**].

= *Euphoeades* Hübner. Verz. bekannt. Schmett., (3): 39 [1819]. Type-species by designation of Scudder, Proc. American Acad. Arts Sci., 10: 172 (1875), *Papilio glaucus* Linnaeus, Syst. Nat., ed. 10, 1: 460 (1758) [see **Note 227**].

1. **glaucus** (Linnaeus) *PAPILIO.* Syst. Nat., ed. 10, 1: 460 (1758). TL — "Amer. sept." Loc. of type not known.

a. g. glaucus (Linnaeus) *PAPILIO.* Syst. Nat., ed. 10, 1: 460 (1758). TL — "Amer. sept." Loc. of type not known [see **Note 228**]. **320a.**

= *antilochus* (Linnaeus) *PAPILIO.* Syst. Nat., ed. 10, 1: 463 (1758). TL — "Amer. sept." Loc. of type not known [see **Note 229**].

= *turnus* (Linnaeus) *PAPILIO.* Mantissa Plant., 2: 536 (1771). TL — "America". Loc. of type not known.

= *alcidamas* (Cramer) *PAPILIO.* Uitl. Kapellen, 1: 62 [1775]. TL — "Jamaica", restricted to "New York, Carolina" by Rothschild and Jordan, Novitates Zool., 13: 563 (1906). Loc. of type not known [see **Note 7**].

= ab. "fletcheri" (Kemp) *PAPILIO.* Ent. News, 11: 481 (1900). TL — New Jersey". HT in AMNH [see **Note 230**].

= ab. "dietzi" (Gunder) *PAPILIO.* Ent. News, 38: 266 (1927). TL — Van Cortland Park, New York, New York. HT in AMNH.

= ab, "gerhardi" (Gunder) *PAPILIO.* Ent. News, 38: 266-267 (1927). TL — Evansville, Indiana. HT in FMNH.

b. **g. canadensis** (Rothschild and Jordan) *PAPILIO.* Novitates Zool., 13: 586-587 (1906). TL — "Newfoundland". ST's in BM. **320b.**

= *arcticus* (Skinner) *PAPILIO.* Ent. News, 17: 379 (1906). TL — Eagle, Alaska, and Athabasca River, N. W. T. ST's in CM.

= ab. "deficiens" (Dufrane) *PAPILIO.* Bull. Ann. Soc. Ent. Belgique, 82: 115 (1946). TL — "United States". HT may be in Tervuren (Belgium).

c. **g. australis** (Maynard) *PAPILIO.* Man. N. American Butt.: 215 (1891). TL — "Florida". HT in MCZ. **320c.**

2. **rutulus** (Lucas) *PAPILIO. in* Guérin-Méneville, Rev. Zool., (2)4: 158 (1852). TL — "California". HT should be in MNHN [see **Note 231**].

a. **r. rutulus** (Lucas) *PAPILIO. in* Guérin-Méneville, Rev. Zool., (2)4: 158 (1852). TL — "California". HT should be in MNHN [see **Note 000**]. **321a.**

= *hospitonina* (LeCerf) *PAPILIO.* Bull. Mus. Hist. Nat. Paris, Suppl. 2: 25 (1912). TL — Vancouver I., British Columbia. Type should be in MNHN.

= ab. "fannyae" (Gunder) *PAPILIO.* Ent. News, 38: 267 (1927). TL — Yoncalla, Oregon. HT in AMNH.

b. **r. ammoni** (Behrens) *PAPILIO.* Canadian Ent., 19: 199 (1887). TL — "Nevada". Loc. of type not known. **321b.**

c. **r. arizonensis** (W. H. Edwards) *PAPILIO.* Papilio, 3: 4 (1883). TL — "Arizona", restricted to old Fort Grant, Graham Co., Arizona, by F. M. Brown, Trans. American Ent. Soc., 101: 26-28 (1975). LT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 101: 26-28 (1975). **321c.**

3. **multicaudata** (W. F. Kirby) *PAPILIO.* Papilio, 4: 104 (1884). Replacement name for *daunus* Boisduval, Spec. Gén. Lépid., 1: 342 (1836), not *daunus* Cramer, Uitl. Kapellen, 2: 44 [1777]. **322.**

= ‡*daunus* (Boisduval) *PAPILIO.* Spec. Gén. Lépid., 1: 342 (1836). TL — "Mexico". Type may be in BM. Preoccupied by *daunus* Cramer, Uitl.

Kapellen, 2: 44 [1777].

= ab. "ragani" (Barnes) *PAPILIO.* Pan-Pac. Ent., 5: 5 (1928). TL — Baboquivari Mtns., Arizona. HT in USNM.

4. **eurymedon** (Lucas) *PAPILIO. in* Guérin-Méneville, Rev. Zool., (2)4: 140 (1852). TL — "California". Type may be in MNHN [see **Note 232**]. 323.

= *albanus* (C. & R. Felder) *PAPILIO.* Reise . . . Novara, Lepid. Rhop., 1: 93 [1864]. TL — "California". ST's should be in BM.

= *lewisii* (W. F. Kirby) *PAPILIO.* Papilio, 4: 104 (1884). TL — "California". Type may be in Dublin.

= ab. "cocklei" (Gunder) *PAPILIO.* Ent. News, 36: 200 (1925). TL — Kaslo, British Columbia. HT in AMNH.

= ab. "columbiana" (Gunder) *PAPILIO.* Ent. News, 38: 267-268 (1927). TL — Kaslo, British Columbia. HT in AMNH.

5. **pilumnus** (Boisduval) *PAPILIO.* Spec. Gén. Lépid., 1: 340 (1836). TL — "Mexico". HT may be in BM. 324.

6. **troilus** (Linnaeus) *PAPILIO.* Syst. Nat., ed. 10, 1: 459 (1758). TL — "Indiis" (error). Type may be in Mus. Ludovica Ulrica.

a. t. **troilus** (Linnaeus) *PAPILIO.* Syst. Nat., ed. 10, 1: 459 (1758). TL — "Indiis" (error). Type may be in Mus. Ludovica Ulrica. 325a.

= ab. "radiatus" (Strecker) *PAPILIO.* Lep. Rhop. Het., Suppl. 3: 17 (1900). TL — Washington, D. C.; Allegheny Co., Pennsylvania. ST's in FMNH.

= ‡ab. "flava" (Dufrane) *PAPILIO.* Bull. Ann. Soc. Ent. Belgique, 82: 115 (1946). TL — Pocono Mtns., Pennsylvania. HT may be in Tervuren (Belgium). May be preoccupied by *flavus* Müller, Prodr. Zool. Dan.: 115 (1776).

= ab. "obliterata" (Durfrane) *PAPILIO.* Bull. Ann. Soc. Ent. Belgique, 82: 115 (1946). TL — "United States". HT may be in Tervuren (Belgium).

= ab. "berioi" (Dufrane). *PAPILIO.* Bull. Ann. Soc. Ent. Belgique, 82: 115 (1946). TL — Pocono Mtns., Pennsylvania. HT may be in Tervuren (Belgium).

= ab. "addenda" (Dufrane) *PAPILIO.* Bull. Ann. Soc. Ent. Belgique, 82: 115 (1946). TL — Pocono Mtns., Pennsylvania. HT may be in Tervuren (Belgium).

b. t. **ilioneus** (J. E. Smith) *PAPILIO. in* Abbot, Nat. Hist. Rarer Lepid. Ins. Georgia, 1: 3 (1797). TL — "Georgia". Type probably never existed, the Abbot plate representing the type. 325b.

= *texanus* (Ehrmann) *PAPILIO.* Canadian Ent., 32: 348 (1900). TL — Houston, Texas. HT in CM.

7. **palamedes** (Drury) *PAPILIO.* Ill. Nat. Hist., 1: index et 37 [1773]. TL — New York. Type probably lost [see Note **99**]. 326.

= *chalcas* (Fabricius) *PAPILIO.* Syst. Ent.: 453 (1775). TL — "America". ST's in Glasgow [see **Note 233**].

= *flavomaculatus* (Goeze) *PAPILIO.* Ent. Beytr., 3: 1 (1779). TL not stated. Name based on Seba, Thesaur., 4: 51; pl. 43, figs. 3-4 (1764), so no actual type specimen exists.

Genus XCVII: **Priamides** Hübner

Verz. bekannt. Schmett., (6): 87 [1819]. Type-species by designation of Hemming, Annot. Lepid., (3): 107 (1964), *Priamides hippona* Hübner, Verz. bekannt. Schmett., (6): 87 [1819] (=*Papilio anchisiades* Esper, Die ausländ. Schmett., (4): 53 (1788)) [see **Note 234**].

*1. **anchisiades** (Esper) *PAPILIO.* Die Ausländ. Schmett., (4): 53 (1788). TL — "Surinam". Loc. of type not known [see **Notes 235** and **236**].

= *hippona* Hübner. Verz. bekannt. Schmett., (6): 87 [1819]. Proposed to replace *anchises* Stoll, *in* Cramer, Uitl. Kapellen, 4: 58 [1780] (not Linnaeus, Syst. Nat., ed. 10, 1: 460 (1758)).

= *archelaus* (Godart) *PAPILIO.* Enc. Meth., 9: 32 [1819]. TL — "Guiana". Type may be in MNHN.

= *theramenes* (C. and R. Felder) *PAPILIO.* Wiener Ent. Monats., 5: 74 (1861). TL — Caracas, Venezuela. HT may be in BM.

a. **a. idaeus** (Fabricius) *PAPILIO.* Ent. Syst., 3(1): 16 (1793). TL — "Madras" (error). Type (from Drury) probably lost [see **Note 237**]. **327a.**

= *pandion* (C. and R. Felder) *PAPILIO.* Reise . . . Novara, Lepid. Rhop., 1: 79 [1865]. TL — "Mexico". Type probably in BM.

Family **PIERIDAE** Duponchel

in Godart, Hist. Nat. Lépid. France, Suppl. 1: 381 [1832].

Subfamily **Pierinae** Duponchel

in Godart, Hist. Nat. Lépid. France, Suppl. 1: 381 [1832] [see **Note 1**].

Tribe **Pierini** Duponchel

in Godart, Hist. Nat. Lépid. France, Suppl. 1: 381 [1832] [see **Note 1**].

Genus XCVIII: **Catasticta** Butler

Cist. Ent., 1: 34, 43 (1870). Type-species by original designation *Euterpe nimbice* Boisduval, Hist. Nat. Ins., Spec. gén. Lépid., 1: 409 (1836) [see **Note 238**].

*1. **nimbice** (Boisduval) *EUTERPE.* Hist. Nat. Ins., Spec. gén. Lépid., 1: 409 (1836, ♂ only). TL — "Mexique", probably vic. Orizaba, Veracruz. HT should be in MNHN [see **Note 239**].

*a. **n. nimbice** (Boisduval) *EUTERPE.* Hist. Nat. Ins., Spec. gén. Lépid., 1: 409 (1836, ♂ only). TL — "Mexique", probably vic. Orizaba, Veracruz. HT should be in MNHN [see **Note 239**]. **328a.**

Genus XCIX: **Neophasia** Behr

Trans. American Ent. Soc., 2: 203 (1869). Type-species by designation of W. F. Kirby, Zool. Rec., 6: 357 [1870] *Pieris menapia* C. and R. Felder, Wiener Ent. Monats., 3: 271 (1859).

1. **menapia** (C. and R. Felder) *PIERIS.* Wiener Ent. Monats., 3: 271 (1859). TL — "Utah" [see **Note 240**], here restricted to west of Pyramid Lake, Nevada. HT in BM [see **Note 241**]. **329.**

= *tau* (Scudder) *PIERIS.* Proc. Boston Soc. Nat. Hist., 8: 183 (1861). TL — Gulf of Georgia, [Washington]. HT in MCZ.

= *ninonia* (Boisduval) *PIERIS.* Ann. Soc. Ent. Belgique, 12: 38 (1869). TL — "le plus orientale de la Californie". HT apparently in USNM [see **Note 22**].

= f. "suffusa" Stretch. Papilio, 2: 109-110 (1882). TL — vic. Spokane Falls, Washington. HT in MCZ.

= ab. "nigrocosta" J. A. Comstock. The Lepid., 2: 13 (1918). TL — "high Sierras of Tulare Co., California, 9-10,000 ft. (near Olancha Peak)". HT in LACM.

2. **terlootii** (emended) Behr. Trans. American Ent. Soc., 2: 304 (1869). TL — "pine forests, Sierra Madre, E of Mazatlán, [Sinaloa], Mexico". Type destroyed in 1906 earthquake and fire [see **Notes 242** and **243**]. **330.**
   = ♀ f. "epyaxa" Strecker. Lepid. Rhop. Het., Suppl. 3: 38 (1900). TL — Cochise Co., Arizona. HT in FMNH.
   = ♀ f. "princetonia" Poling. Canadian Ent., 32: 358 (1900). TL — Cochise Co., Arizona. HT in USNM.

Genus C: **Appias** Hübner

Verz. bekannt. Schmett., (6): 91 [1819]. Type-species by designation of Butler, Cist. Ent., 1: 49 (1870) *Papilio zelmira* Stoll, *in* Cramer, Uitl. Kapellen, 4: 64 [1780] (=*Papilio libythea* Fabricius, Syst. Ent.: 471; 1775) [see **Note 244**].
= *Catophaga* Hübner, Verz. bekannt. Schmett., (6): 93 [1819]. Type-species by designation of Scudder, *Papilio paulina* Cramer, Uitl. Kapellen, 2: 21 [1777].
= *Hiposcrita* Geyer, *in* Hübner, Zutr. z. Samml. exot. Schmett., 4: 16 [1832]. Type-species by monotypy *Hiposcrita pandione* Geyer, Zutr. z. Samml. exot. Schmett., 4: 16 [1832].
= ‡*Trigonia* Geyer, *in* Hübner, Zutr. z. Samml. exot. Schmett., 5: 21, 35 [1837]. Type-species by designation of Scudder, Proc. American Acad. Arts Sci., 10: 286 (1875) *Papilio nero* Fabricius, Ent. Syst., 3: 153 (1793). Preoccupied by *Trigonia* Brugière, Enc. Meth., Vers., (1): 14 (1789).
= *Tachyris* Wallace, Trans. Ent. Soc. London, (3)4: 361 (1867). Type-species by designation of Scudder, Proc. American Acad. Arts Sci., 10: 274 (1875) *Papilio nero* Fabricius, Ent. Syst., 3: 153 (1793).
= *Glutophrissa* Butler, Ent. Mo. Mag., 23: 249 (1887). Type-species by original designation *Appias poeyi* Butler, Proc. Zool. Soc. London, [1872]: 49 [1872] (=*Papilio drusilla* Cramer, Uitl. Kapellen, 2: 21 [1777], subspecies).
= *Lade* de Nicéville, J. Bombay Nat. Hist. Soc., 12: 153 (1898). Type-species by original designation *Appias lalassis* Grose-Smith, Ann. Mag. Nat. Hist., (5)20: 265 (1898).

*1. **drusilla** (Cramer) *PAPILIO*. Uitl. Kapellen, 2: 21 [1777]. TL — "Batavia", but undoubtedly Neotropical (Surinam?). Loc. of type not known [see **Note 7**].
= *ilaire* (Godart) *PIERIS*. Enc. Meth., 9: 142 [1819]. TL — "Brésil". HT should be in MNHN.
= *mysia* (Godart) *PIERIS*. Enc. Meth., 9: 145 [1819]. TL — "Brésil". HT should be in MNHN.
= *albunea* (Dalman) *PIERIS*. Anal. Ent.: 39 (1823). TL — "Brasil". Loc. of type not known.
= *molpodia* (Hübner) *MYLOTHRIS*. Zutr. z. Samml. exot. Schmett.: pl. 536 [1823]. TL — "Brasil". Type probably lost [see **Note 9**].
= *margarita* (Hübner) *MYLOTHRIS*. Samml. exot. Schmett., 2: pl. [120] [1825]. TL not stated. Type probably lost [see **Note 9**].

a. **d. poeyi** Butler. Proc. Zool. Soc. London, [1872]: 49 (1872). TL — Sierra Maestra, Cuba. NT in AMNH, designated by W. P. Comstock, American Mus. Novitates, (1238): 3 (1943). **331a.**
   = *peregrina* Röber. *in* Seitz, Grossschmett. Erde, 5: 105 (1909). TL — "Cuba". ST's probably destroyed in World Warr II bombing of Dresden.

b. **d. neumoegeni** (Skinner) *TACHYRIS*. Ent. News, 5: 110 (1894). TL — Indian River, Florida. Type appears to be lost (CM), AMNH?, FMNH?). **331b.**
   = ab. "hollandi" Röber. *in* Seitz, Grossschmett. Erde, 5: 68 (1909). TL — [Indian River, Florida], name based on Holland, Butt. Book: pl. 35, fig. 5 (1898). HT in CM.

Genus CI: **Pontia** Fabricius

Mag. f. Insektenk., 6: 283 (1807). Type-species by designation of Curtis, British Ent., 5: pl. 48 (1824) *Papilio daplidice* Linnaeus, Syst. Nat., ed. 10, 1: 468 (1758) [see **Note 245**].

= *Mancipium* Hübner, Samml. exot. Schmett., 1: pl. [141] [1807]. Type-species by monotypy *Mancipium hellice* Hübner, Samml. exot. Schmett., 1: pl. [141] [1807] (=*Papilio helice* Linnaeus, Mus. Ludoviciae Ulrica: 243; 1767). Name placed on Off. Index Rejected Invalid Gen. Names Zool. as Name 214 (1954).

= *Synchloe* Hübner, Zutr. z. Samml. exot. Schmett., 1: 26 (1818). Type-species by designation of Butler, Cist. Ent., 1: 51 (1870) *Papilio callidice* Hübner, Samml. europaischer Schmett.: pl. *Pap.* 81, figs. 408-409 [1799-1800].

= *Parapieris* de Nicéville, J. Asiatic Soc. Bengal, (2)66(3): 563 (1897). Type-species by original designation *Papilio callidice* Hübner, Samml. europaischer Schmett.: pl. *Pap.* 81, figs. 408-409 [1799-1800].

= *Leucochloe* Röber, *in* Seitz, Grossschmett. Erde, 5: 49 (1907). Type-species by designation of Klots, Ent. Americana, (n. ser.)12(3): 212 (1928) *Papilio daplidice* Linnaeus, Syst. nat., ed. 10, 1: 468 (1758).

1. **beckerii** (W. H. Edwards) *PIERIS.* Butt. N. America, 1: [30] - [31] (1871). TL — Virginia City, Nevada. HT in AMNH [see **Note 246**]. **332.**

= *pseudochlorodice* (McDunnough) *PIERIS.* Canadian Ent., 60: 266-267 (1928). TL — Oliver, British Columbia. HT in CNC.

= ab. "gunderi" (Ingham) *PIERIS.* Pan-Pac. Ent., 9: 75 (1933). TL — Bouquet Canyon, Los Angeles Co., California. HT in LACM.

2. **sisymbrii** (Boisduval) *PIERIS.* Ann. Soc. Ent. France, (2)10: 284 (1852). TL — "Californie", probably the gold field of Tuolumne River. HT apparently in USNM [see **Note 22**].

a. s. **sisymbrii** (Boisduval) *PIERIS.* Ann. Soc. Ent. France, (2)10: 284 (1852). TL — "Californie", probably the gold field of Tuolumne River. HT apparently in USNM [see **Note 22**]. **333a.**

= *transversa* (Barnes and Benjamin) *PIERIS.* Bull. S. California Acad. Sci., 25: 88 (1926). TL — Paradise, Cochise Co., Arizona. HT in USNM.

= f. "flava" (W. H. Edwards) *PIERIS.* Butt. N. America, 2: [57] (1883). TL — "California". No type designated.

b. s. **flavitincta** (J. A. Comstock) *PIERIS.* Bull. S. California Acad. Sci., 23: 19-20 (1924). TL — Cranbrook, British Columbia. HT in LACM [see **Note 247**]. **333b.**

c. s. **elivata** (Barnes and Benjamin) *PIERIS.* Bull. S. California Acad. Sci., 25: 88 (1926). TL — Glenwood Springs, Colorado. HT in USNM. **333c.**

d. s. **nordini** (K. Johnson) *PIERIS.* J. Lepid. Soc., 31: 167-171 (1977). TL — Monroe Canyon, Sioux Co., Nebraska. HT in AMNH. **333d.**

3. **protodice** (Boisduval and Leconte) *PIERIS.* Hist. Lépid. Amerique sept.: 45 (1829). TL — probably Screven Co., Georgia. Type probably never existed, name based on Abbot drawing [see **Note 248**]. **334.**

= f. "vernalis" (W. H. Edwards) *PIERIS.* Proc. Ent. Soc. Philadelphia, 2: 501 (1864). TL — Red Bank, New Jersey. Type lost [see **Note 249**].

= f. "nasturtiii" (W. H. Edwards) *PIERIS.* Proc. Ent. Soc. Philadelphia, 2: 501 (1864). TL — San Francisco, California. Type lost. A Boisduval Ms. name.

4. **occidentalis** (Reakirt) *PIERIS.* Proc. Ent. Soc. Philadelphia, 6: 133 (1866). TL — "Rocky Mtns., Colorado Territory", here restricted to vic. Empire, Clear Creek Co., Colorado. HT in FMNH [see **Notes 250** and **251**].

a. o. **occidentalis** (Reakirt) *PIERIS.* Proc. Ent. Soc. Philadelphia, 6: 133 (1866). TL — "Rocky Mtns., Colorado Territory", here restricted to vic. **335a.**

Empire, Clear Creek Co., Colorado. HT in FMNH [see **Notes 250** and **251**].

= winter f. "calyce" (W. H. Edwards) *PIERIS.* Trans. American Ent. Soc., 3: 189 (1870). TL — Virginia City, Nevada, restricted by F. M. Brown, Trans. American Ent. Soc., 99: 108 (1973). HT in CM.

b. **o. nelsoni** (W. H. Edwards) *PIERIS.* Butt. N. America, 2: [71] (1883). TL — St. Michael's Alaska. HT in CM. **335b.**

Genus CII: **Artogeia** Verity

Farfalle diurn. d'Italia, 3: 192 (1947). Type-species by original designation *Papilio napi* Linnaeus, Syst. Nat., ed. 10, 1: 468 (1758) [see **Note 252**].

*1. **napi** (Linnaeus) *PAPILIO.* Syst. Nat., ed. 10, 1: 468 (1758). TL — "Sweden", designated by Verity, Farfalle diurn. d'Italia, 3: 193 (1947). Loc. of type not known (BM?, Linnaean Soc. London? Uppsala?) [see **Notes 75** and **253**].

a. **n. pseudobryoniae** (Verity) *PIERIS.* Rhop. Palaearctica: xxviii, 146 (1908). TL — Finnmark, Scandanavia. Type may be in BM. **336a.**

= *arctica* (Verity) *PIERIS.* Rhop. Palaearctica: xxviii, 334 (1911). TL — "Norvege sept." HT in Stephanelli colln.

b. **n. hulda** (W. H. Edwards) *PIERIS.* Trans. American Ent. Soc., 2: 370 (1869). TL — Kodiak, Alaska. NT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 99: 103 (1973). **336b.**

= *passosi* (Warren) *PIERIS.* Ent. Rec. J. Var., 80: 62-64 (1968). TL — Palmer, Alaska. ST's in AMNH. Described as hybrid between *hulda* and *oleracea* (!).

c. **n. frigida** (Scudder) *PIERIS.* Proc. Boston Nat. Hist. Soc., 8: 181 (1861). TL — Caribou I., Straits of Belle Isle, Newfoundland. Loc. of type not known (USNM?). **336c.**

= *borealis* (Grote) *PIERIS.* Proc. Buffalo Nat. Hist. Soc., 1: 185 (1873). TL — Anticosti I., Quebec. Loc. of type not known (Buffalo Mus. Sci.? BM?).

= summer f. "acadica" (W. H. Edwards) *PIERIS.* Papilio 1: 86-87 (1881). TL — "Newfoundland", restricted to Avalon Peninsula by F. M. Brown, Trans. American Ent. Soc., 99: 104 (1973). LT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 99: 105 (1973).

= f. "pseudoleracea" (Verity) *PIERIS.* Rhop. Palaearctica: xxviii, 146 (1908). TL — "Labrador". HT apparently in USNM [see **Note 22**].

d. **n. oleracea** (Harris) *PIERIS.* New England Farmer, 8: 402 (1929). TL — "northern and western Massachusetts" by implication. ST's may be in MCZ (*via* Boston Soc. Nat. Hist.). **336d.**

= *casta* (W. Kirby) *PIERIS. in* Richardson, Fauna Bor.-Americana, 4: 288 (1837). TL — Great Bear L., Northwest Territories. HT probably in BM.

= *hyemalis* (W. H. Edwards) *PIERIS.* Papilio, 1: 90 (1881). TL — "New York", probably Hunter, Greene Co., New York. Type probably in CM [see **Notes 254** and **255**].

= summer f. "cruciferarum" (Boisduval) *PIERIS.* Hist. Nat. Ins., Spec. gen. Lépid., 1: 519 (1836). TL — "les provinces septentrionales des Etats-Unis" (New York and New England). HT apparently in USNM [see **Note 22**].

= summer f. "aestiva" (W. H. Edwards) *PIERIS.* Papilio, 1: 93 (1881). TL — "New York", probably Hunter, Greene Co., New York. Type should be in CM [see **Note 255**] (= "cruciferarum").

= ‡ ab. "virginiensis" (W. H. Edwards) *PIERIS.* Papilio, 1: 95 (1881). TL — "New York", probably Hunter, Greene Co., New

York. HT should be in CM. Preoccupied by *virginiensis* (W. H. Edwards) *PIERIS*, Trans. American Ent. Soc., 3: 13-14 (1870).

= ab. "immaculata" (Skinner and E. M. Aaron) *PIERIS*. Canadian Ent., 21: 128-129 (1889). TL — "Penna", presumed to be vic. Philadelphia, Pennsylvania. HT should be in CM.

e. **n. venosa** (Scudder) *PIERIS*. Proc. Boston Soc. Nat. Hist., 8: 182-183 (1861). TL — San Mateo and Mendocino, California. HT in MCZ [see **Note 256**]. **336e.**

f. **n. castoria** (Reakirt) *PIERIS*. Proc. Acad. Nat. Sci. Philadelphia, 18: 238 (1866). TL — "California". Type lost [see **Note 257**]. **336f.**

= ‡ *nasturtii* (Boisduval) *PIERIS*. Ann. Soc. Ent. Belgique, 12: 38-39 (1869). TL — "au pied de la Juba" (Sacramento Valley, California). HT apparently in USNM [see **Note 258**]. Preoccupied by *Pieris nasturtii* W. H. Edwards, Proc. Ent. Soc. Philadelphia, 2: 501 (1864).

= *resedae* (Boisduval) *PIERIS*. Ann. Soc. Ent. Belgique, 12: 39 (1869). TL — Sacramento, California. HT apparently in USNM [see **Note 22**].

= f. "iberidis" (Boisduval) *PIERIS*. Ann. Soc. Ent. Belgique, 12: 39 (1869). TL — "California". HT apparently in USNM [see **Note 22**].

= f. "microstriata" (J. A. Comstock) *PIERIS*. Bull. S. California Acad. Sci., 23: 125 (1924). TL — Eldredge, Sonoma Co., California. HT in LACM.

= ab "cottlei" (Gunder) *PIERIS*. Ent. News, 36: 197-198 (1925). TL — Anderson Spgs., Lake Co., California. HT in AMNH.

g. **n. marginalis** (Scudder) *PIERIS*. Proc. Boston Soc. Nat. Hist., 8: 182 (1861). TL — "Gulf of Georgia" (Victoria, B. C., Vancouver, B. C. or NW shore of Washington). HT in MCZ. **336g.**

= summer f. "pallida" (Scudder) *PIERIS*. Proc. Boston Soc. Nat. Hist, 8: 183 (1861). TL — "Gulf of Georgia", (Victoria, B. C., Vancouver, B. C. or NW shore of Washington). HT in MCZ.

h. **n. mcdunnoughi** (Remington) *PIERIS*. Lepid. News, 8: 75 (1954). TL — Silverton, Colorado. HT in USNM. Proposed as replacement name for *pseudonapi* (Barnes and McDunnough) (see Below) [see **Note 259**]. **336h.**

= ‡ *pseudonapi* (Barnes and McDunnough) *PIERIS*. Contrib. Nat. Hist. Lepid. N. America, 3: 57 (1916). TL — Silverton, Colorado. HT in USNM. Preoccupied by *Pieris pseudonapi* Verity, Rhop. Palaearctica: 330 (1905-1911).

= summer f. "pallidissima" (Barnes and McDunnough) *PIERIS*. Contrib. Nat. Hist. Lepid. N. America, 3: 59 (1916). TL — Provo, Utah. HT in USNM [see **Note 260**].

i. **n. mogollon** (Burdick) *PIERIS*. Canadian Ent., 74: 154 (1942). TL — Mogollon Range, Catron Co., New Mexico. HT in CNC. **336i.**

= *warreni* (dos Passos) *PIERIS*. J. New York Ent. Soc., 73: 138 (1965). TL — White Mtns., Arizona. HT in AMNH.

2. **virginiensis** (W. H. Edwards) *PIERIS*. Trans. American Ent. Soc., 3: 13-14 (1870). TL — restricted to Kanawha dist., West Virginia by F. M. Brown, Trans. American Ent. Soc., 99: 97 (1973). NT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 99: 101 (1973). **337.**

3. **rapae** (Linnaeus) *PAPILIO*. Syst. Nat., ed. 10, 1: 468 (1758). TL — designated as "Sweden" by Verity, Farfalle diurn. d'Italia, 3: 232 (1947). Type probably in Uppsala [see **Note 75**]. **338.**

= f. "yreka" (Reakirt) *PIERIS*. Proc. Acad. Nat. Sci. Philadelphia, 18: 238 (1866). TL — "California", but more likely a French specimen supplied by Lorquin under a false label. HT in FMNH.

= ab. "novangliae" (Scudder) *PIERIS*. Canadian Ent., 4: 79 (1872). TL — Sherburne, New Hampshire. LT in MCZ, designated by Watson, possibly *in litt.*

= ‡ ab. "immaculata" (Skinner and E. M. Aaron) *PIERIS*. Canadian

Ent., 21: 128-129 (1899). TL — presumably Philadelphia, Pennsylvania. HT in CM. Preoccupied by *Pieris (ab.)* immaculata Skinner and E. M. Aaron, Canadian Ent., 21: 128-129 (1889).

= ‡ ab. "immaculata" (Cockerell) *PIERIS.* Entomologist, 32: 99 (1899). TL not stated. Type probably lost. Preoccupied by *Pieris (ab.)* immaculata Skinner and E. M. Aaron, Canadian Ent., 21: 128-129 (1889).

Genus CIII: **Ascia** Scopoli

Intro. Hist. Nat.: 434 (1777). Type-species by designation of Scudder, 4th Ann. Rept. Peabody Acad. Sci., [1871]: 61 (1872) *Papilio monuste* Linnaeus, Mus. Ludoviciae Ulricae: 237 (1764).

1. **monuste** (Linnaeus) *PAPILIO.* Mus. Ludoviciae Ulricae: 237 (1764). TL — "Barbaria", possibly "Surinam". Type lost [see **Notes 261** and **262**].

a. **m. monuste** (Linnaeus) *PAPILIO.* Mus. Ludoviciae Ulricae: 237 (1764). TL — "Barbaria", possibly "Surinam". Type lost [see **Notes 261** and **262**]. **339a.**

= *hippomonuste* (Hübner) *MYLOTHRIS.* Verz. bekantt. Schmett., 1: 91 (1816). TL not stated. Type lost [see **Note 9**].

= *feronia* (Stephens) *PIERIS.* Ill. British Ent., Haust.: 237 (1828). TL not known. Type may be in BM.

= *suasa* (Boisduval) *PIERIS.* Hist. Nat. Ins. Spec. gen. Lépid.: 549 (1836). TL — "Chili". HT may be in MNHN.

= *albusta* (Sepp) *PAPILIO.* Surinamische Vlinders, 3: pl. 141 (1855). TL — "Surinam". Type lost.

b. **m. phileta** (Fabricus) *PAPILIO.* Syst. Ent.: 471 (1775). TL — "in America". Type lost. **339b.**

= *?crameri* Holland. Butt. Book (rev. ed.): 278 (1931). TL — "Florida", but see **Note 263.** Type lost (not in CM).

c. **m. cleomes** (Boisduval and Leconte) *PIERIS.* Hist. Lépid. Amerique sept.: 48 [1829]. TL — probably Screven Co., Georgia. Type does not exist, name based on Abbot figure (see W. P. Comstock, American Mus. Novitates, (1229): 3-4 (1943)). **339c.**

Genus CIV: **Ganyra** Billberg

Enum. Ins. Mus. Billberg: 76 (1820). Type-species by designation of Scudder, Proc. American Acad. Arts Sci., 10: 178 (1875) *Papilio amaryllis* Fabricius, Ent. Syst., 3(1): 189 (1793) (preoccupied; = *Pieris josephina* Godart, Enc. Meth., 9: 158 [1819]; subspecies).

*1. **josephina** (Godart) *PIERIS.* Enc. Meth., 9: 158 [1819]. TL — "Hispaniola", probably Port au Prince, Haiti. HT probably in MNHN.

a. **j. josepha** (Salvin and Godman) *PIERIS.* Ann. Mag. Nat. Hist., (4)2: 150 (1868). TL — Chuacas, Polochic Valley, Guatemala. HT in BM. **340a.**

Subfamily **Anthocharinae** Tutt

British Butts.: 86, 243 (1896) (as "Anthocaridi").

Tribe **Anthocharini** Tutt

British Butts.: 86, 243 (1896) (as "Anthocaridi").

Genus CV: **Euchloe** Hübner

Verz. bekannt. Schmett., (6): 94 [1819]. Type-species by designation of I. C. Z. N. (Op. 270; 1954) *Euchloe ausonia* var. *esperi* W. F. Kirby, Syn. Cat. diurn. Lepid.: 506 (1871).

= ‡*Phyllocharis* Schatz, *in* Staudinger and Schatz, Exot. Schmett., 1(2) pl. 8 [1885]. Type-species by monotypy *Papilio tagis* Hübner, Samml. exot. Schmett.: pl. *Pap.* 110, figs. 565-566 [1803-1804] [see **Note 264**]. Preoccupied by *Phyllocharis* Dalman, Ephem. Ent.: 21 (1824).

1. **ausonides** (Lucas) *ANTHOCHARIS.* Rev. Mag. Zool., (2)4: 340 (1852). TL — probably near San Francisco, California. HT should be in MNHN [see **Notes 265, 266** and **267**].

   a. **a. ausonides** (Lucas) *ANTHOCHARIS.* Rev. Mag. Zool., (2)4: 340 (1852). TL — probably near San Francisco, California. HT should be in MNHN [see **Notes 265, 266** and **267**]. **341a.**

      = f. "flavidalis" J. A. Comstock. Bull. S. California Acad. Sci., 23: 5 (1924). TL — Palo Alto, California. HT in LACM.

      = f. "semiflava" J. A. Comstock. Bull. S. California Acad. Sci., 23: 6 (1924). TL — San Jose Mission, California. HT in LACM.

         = ab. "boharti" Doudoroff. Pan-Pac. Ent., 6: 143 (1939). TL — Berkeley, California. HT in Bohart colln. (CAS?).

   b. **a. coloradensis** (Hy. Edwards) *ANTHOCHARIS.* Papilio, 1: 50 (1881). TL — "Colorado", restricted to Turkey Creek Junction, Jefferson Co., Colorado by Opler, J. Res. Lepid., 5: 192 ([1967] "1966"). HT in AMNH). **341b.**

      = *montana* Verity. Rhop. Palaearctica: 339 [1908]. TL — Hall Valley, Park Co., Colorado. HT in BM.

         = ab. "hemiflava" Field. J. Ent. Zool. (Pomona Coll.), 28: 19 (1936). TL — Payson, Utah. HT in USNM.

   c. **a. mayi** F. and R. Chermock. Canadian Ent., 72: 82 (1940). TL — Riding Mtns., Manitoba. Loc. of type not known (not in F. Chermock colln., AME). **341c.**

   d. **a. palaeoreios** K. Johnson. J. Lepid. Soc., 30: 253-257 (1976). TL — Spearfish Canyon, Lawrence Co., South Dakota. HT in AMNH. **341d.**

2. **creusa** (Doubleday) *ANTHOCHARIS.* Gen. diurn. Lepid., 1: 56 [1847]. TL — "Rocky Mtns.", presumably vic. Banff, Alberta. Type should be in BM [see **Notes 268** and **269**]. **342.**

3. **hyantis** (W. H. Edwards) *ANTHOCARIS* [*sic.*]. Trans. American Ent. Soc., 3: 205 (1871). TL — "Mendocino Co., California", restricted to vic. Ukiah, Mendocino Co., California by F. M. Brown, Trans. American Ent. Soc., 99: 35 (1973). LT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 99: 38 (1973) [see **Note 270**].

   a. **h. hyantis** (W. H. Edwards) *ANTHOCARIS* [*sic.*]. Trans. American Ent. Soc., 3: 205 (1871). TL — "Mendocino Co., California", restricted to vic. Ukiah, Mendocino Co., California by F. M. Brown, Trans. American Ent. Soc., 99: 35 (1973). LT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 99: 38 (1973) [see **Notes 270** and **271**]. **343a.**

      = *orientalides* Verity. Rhop. Palaearctica: xxxi, 182 [1908]. TL — "L'O de l'Amerique septentrionale". Type supposedly in Joannis colln [see **Note 272**].

      = *pseudoausonides* Verity. Rhop. Palaearctica: xxxi, 339 [1908]. TL — "Californie". HT in BM [see **Note 273**].

      = *pumilo* Strand. Arch. f. Naturgesch., (A)80(11): 153 (1914). TL — Klamath Co., Oregon. HT was in Berlin-Dahlem before World War II; its fate not now known.

   b. **h. andrewsi** Martin. Bull. S. California Acad. Sci., 35: 94 (1958). TL — Crest Line Hwy., nr. Lake Arrowhead, San Bernardino Co., California. HT in LACM. **343b.**

c. **h. lotta** Beutenmüller. Bull. American Mus. Nat. Hist., 10: 24 (1898). TL — "Colorado, Arizona, Utah, southern California". ST's in AMNH. 343c.

d. **h. elsa** Beutenmüller. Bull. American Mus. Nat. Hist., 10: 25 (1898). TL — Laggan, "British Columbia". ST's in AMNH. 343d.

4. **olympia** (W. H. Edwards) *ANTHOCARIS* [*sic.*]. Trans. American Ent. Soc., 3: 266-267 (1871). TL — Coalburgh, West Virginia. LT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 99: 33 (1973). 344.

= f. "rosa" (W. H. Edwards) *ANTHOCHARIS*. Papilio, 2: 45-46 (1882). TL — "western Texas", restricted to Wichita Co., Texas by F. M. Brown, Trans. American Ent. Soc., 99: 34-35 (1973). LT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 99: 35 (1973).

Genus CVI: **Anthocharis** Boisduval, Rambur and Graslin

Coll. Icon. Hist. Chenilles d'Europe, (21): pl. 5 (1833). Type-species by monotypy *Papilio cardamines* Linnaeus, Syst. Nat., ed. 10, 1: 468 (1758) [see **Note 274**].

= *Tetracharis* Grote, Proc. American Phil. Soc., 37: 37 (1898). Type-species by monotypy *Anthocharis cethura* C. and R. Felder, Reise . . . Novara, Lepid. Rhop., 2: 182 [1865].

1. **cethura** C. and R. Felder. Reise . . . Novara, Lepid. Rhop., 2: 182 [1865]. TL — "Sonora", a term used by Lorquin for the area around Los Angeles, California. HT in BM.

a. c. **cethura** C. and R. Felder. Reise . . . Novara, Lepid. Rhop., 2: 182 [1865]. TL — "Sonora", a term used by Lorquin for the area around Los Angeles, California. HT in BM. 345a.

= *cooperi* Behr. Trans. American Ent. Soc., 2: 304 (1869). TL — San Diego, California. Type destroyed in 1906 San Francisco earthquake and fire.

= *morrisoni* W. H. Edwards. Papilio, 1: 43-44 (1881). TL — "southern California", restricted to Kern River, Kern Co., California by F. M. Brown, Trans. American Ent. Soc., 99: 47 (1973). LT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 99: 49 (1973).

= *deserti* W. G. Wright. Butts. W. Coast: 106 (1905). TL — Caliente, California. LT in CAS, designated by Tilden, Occ. Pa. California Acad. Sci., (118): 9 (1975).

= *caliente* W. G. Wright. Butts. W. Coast: 112 (1905). TL — Colorado Desert. California. HT in CAS.

b. c. **catalina** Meadows. Bull. S. California Acad. Sci., 35: 177 (1937 "1936"). TL — "Catalina Islands, California", here restricted to ridge between Renton Mine and Jewfish Point at head of Pebbly Beach Canyon. HT in LACM. 345b.

2. **pima** W. H. Edwards. Canadian Ent., 20: 158-159 (1888). TL — [Pantano], Pima Co., Arizona, according to F. M. Brown, Trans. American Ent. Soc., 99: 45-46 (1973). LT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 99: 47 (1973) [see **Note 275**]. 346.

3. **dammersi** J. A. Comstock. Bull. S. California Acad. Sci., 28: 33 (1929). TL — Whitewater Canyon, Riverside Co., California. HT in LACM [see **Note 276**]. 347.

4. **sara** Lucas. Rev. Mag. Zool., (2)4: 12 (1852). TL — "California", presumably around San Francisco, California. Type should be in MNHN.

a. s. **sara** Lucas. Rev. Mag. Zool., (2)4: 12 (1852). TL — "California", presumably around San Francisco, California. Type should be in MNHN. 348a.

= *mollis* W. G. Wright. Butts. W. Coast: 111 (1905). TL — Riche Canyon, California. LT in CAS, designated by Tilden, Occ. Pa. California Acad. Sci., (118): 11 (1975).

= spring f. "reakirtii" W. H. Edwards. Trans. American Ent. Soc., 2: 369 (1869). TL — "California", restricted to San Francisco, California by F. M. Brown, Trans. American Ent. Soc., 99: 39 (1973).

LT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 99: 40-41 (1973).

= spring f. "gunderi" Ingham. Pan-Pac. Ent., 9: 75-76 (1933). TL — Middle Ranch, Santa Catalina I., California. HT in CAS.

= ab. "wrighti" J. A. Comstock. Bull. S. California Acad. Sci., 23: 52 (1924). TL — Chula Vista, California. HT in LACM.

= ab. "sternitzkyi" Gunder. Ent. News, 36: 4 (1925). TL — San Francisco, California. HT in AMNH.

= ab. "corcorani" Gunder. Bull. S. California Acad. Sci., 30: 45 (1931). TL — Griffith Park, Los Angeles Co., California. HT in AMNH.

= ab. "broweri" Gunder. Pan-Pac. Ent., 8: 124 (1932). TL — Peanut Hill, Berkeley Hills, Alameda Co., California. HT in AMNH.

= ab. "flavicoloris" Gunder. Pan-Pac. Ent., 9: 151-152 (1933). TL — Tocaloma, Marin Co., California. HT in AMNH.

b. s. **inghami** Gunder. Canadian Ent., 64: 276-277 (1932). TL — Tucson, Arizona. HT in AMNH. **348b.**

= ab. "duncani" Gunder. Canadian Ent., 64: 277 (1932). TL — Globe, Arizona. HT in AMNH.

c. s. **thoosa** (Scudder) *SYNCHLOE*. Bull. U. S. Geol. Geogr. Surv. Terr., 4(1)(x): 257 (1878). TL — Mokiah Pass, Mojave Co., Arizona. HT may be in USNM or MCZ. **348c.**

d. s. **julia** W. H. Edwards. Trans. American Ent. Soc., 4: 61-63 (1872). TL — Beaver Creek, nr. Fairplay, Park Co., Colorado, as restricted by F. M. Brown, Trans. American Ent. Soc., 99: 44 (1973). LT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 99: 45 (1973). **348d.**

e. s. **browningi** Skinner. Syn. Cat. N. American Rhop., Suppl. 1: 22 (1906). TL — City Creek Canyon, Salt Lake City, Utah. HT in CM. **348e.**

= ab. "sulfuris" Gunder. Bull. S. California Acad. Sci., 30: 45 (1931). TL — Kellogg, Idaho. HT in AMNH.

f. s. **stella** W. H. Edwards. Canadian Ent., 11: 87-89 (1879). TL — "Navada", restricted to Marlette Peak, Carson Range, Washoe Co., Nevada by F. M. Brown, Trans. American Ent. Soc., 99: 41 (1973). LT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 99: 43 (1973). **348f.**

g. s. **flora** W. G. Wright. Butts. W. Coast: 109-110 (1905). TL — Tenino, Washington. LT in CAS, designated by Tilden, Occ. Pap. California Acad. Sci., (118): 11 (1975). **348g.**

h. s. **alaskensis** Gunder. Canadian Ent., 64: 277 (1932). TL — Skagway, Alask. HT in AMNH. **348h.**

Genus CVII: **Falcapica** Klots

Bull. Brooklyn Ent. Soc., 25: 83 (1930). Type-species, as replacement name, *Papilio genutia* Fabricius, Ent. Syst., 3: 193 (1793); preoccupied *(=Mancipium midea* Hübner, Samml. exot. Schmett., 1: pl. [142], figs. 1-4 [1809].

= ‡*Midea* Herrich-Schäffer, Corresp.-Bl. zool.-min. Ver. Regensburg, 21: 105, 143 (1867). Type-species by monotypy *Papilio genutia* Fabricius, Ent. Syst., 3: 193 (1793); preoccupied *(=Mancipium midea* Hübner, Samml. exot. Schmett., 1: pl. [142], figs. 1-4 [1809]). Preoccupied by *Midea* Bruzelius, Beskr. Hydrachn.: 35 [1855].

1. **midea** (Hübner) *MANCIPIUM*. Samml. exot. Schmett., 1: pl. [142], figs. 1-4 [1809]. TL — "Georgien", if based on Abbot material, suggesting vic. Savannah, Chatham Co., Georgia. NT designated from Wilmington I., nr. Savannah, Georgia, by dos Passos and Klots, Ent. Americana, 45: 5-6 (1969) and in AMNH.

a. **m. midea** (Hübner) *MANCIPIUM.* Samml. exot. Schmett., 1: pl. [142], figs. 1-4 [1809]. TL — "Georgien", if based on Abbot material, suggesting vic. Savannah, Chatham Co., Georgia. NT, designated from Wilmington I., nr. Savannah, Georgia by dos Passos and Klots, Ent. Americana, 45: 5-6 (1969) and in AMNH. 349a.

= ‡*genutia* (Fabricius) *PAPILIO.* Ent. Syst., 3: 193 (1793). TL — "India", restricted to Wilmington I., nr. Savannah, Georgia by dos Passos and Klots, Ent. Americana, 45: 5-6 (1969). NT in AMNH, designated by dos Passos and Klots, Ent. Americana, 45: 5-6 (1969). Preoccupied by *Papilio genutia* Cramer, Uitl. Kapellen, 3: 23-24 [1780].

= *lherminieri* (Godart) *PIERIS.* Enc. Meth., 9: 168 [1819]. TL — "Charles town", designated as Charleston, South Carolina by dos Passos and Klots, Ent. Americana, 45: 6 (1969). NT in AMNH, with locality of McClellanville, South Carolina, designated by dos Passos and Klots, Ent. Americana, 45: 6 (1969).

= *flavida* Skinner. Ent. News, 28: 438 (1917). TL — Savannah, Georgia. LT in CM, designated (as "HT") by Gillham and Ehrlich, Trans. American Ent. Soc., 80: 93 (1954).

b. **m. annickae** dos Passos and Klots. Ent. Americana, 45: 17-22 (1969). TL — West Rock, New Haven, Connecticut. HT in AMNH. 349b.

2. **lanceolata** (Lucas) *ANTHOCHARIS.* Rev. Mag. Zool., (2)4: 338 (1852) [see **Note 277**]. TL — "Californie". Type should be in MNHN. 350.

= ‡*lanceolata* (Boisduval) *ANTHOCHARIS.* Ann. Soc. Ent. France, (2)10: 284-285 (1852). TL — "les montagnes de la Juba", possibly in Yuba Co., California. HT apparently in USNM [see **Note 22**]. Preoccupied by *lanceolata* Lucas, Rev. Mag. Zool., (2)4: 338 (1852).

= *edwardsi* (Behr) *ANTHOCHARIS.* Trans. American Ent. Soc., 2: 304 (1869). TL — Downieville, California. Type destroyed in 1906 San Francisco earthquake and fire.

= *australis* (Grinnell) *ANTHOCHARIS.* Canadian Ent., 40: 72 (1908). TL — Arroyo Seco and Millard Canyons, Los Angeles Co., California. ST's in Grinnell and Clemence collns.

Subfamily **Coliadinae** Swainson

Phil. Mag., (2)1: 188 (1827).

Tribe **Coliadini** Swainson

Phil. Mag., (2)1: 188 (1827).

Genus CVIII: **Colias** Fabricius

Mag. f. Insektenk. (Illiger), 6: 284 (1807). Type-species by designation of I. C. Z. N. under Plenary Powers (Op. 146, 1943) *Papilio hyale* Linnaeus, Syst. Nat., ed. 10, 1: 469 (1758).

= ‡*Eurymus* Horsfield (Swainson MS.), Descr. Cat. Lepid. Ins. Mus. E. India Co., (2): 134 (1829). Type-species by original designation *Papilio hyale* Linnaeus, Syst. Nat., ed. 10, 1: 469 (1758). Preoccupied by *Eurymus* Rafinesque, Analyse Nat.: 117 (1815).

= *Scalidoneura* Butler, Proc. Zool. Soc. London, [1871]: 250 (1871). Type-species by original designation *Scalidoneura hermina* Butler, Proc. Zool. Soc. London, [1871]: 251 (1871) [see **Note 278**].

= *Eriocolias* Watson, Entomologist, 28: 167 (1895). Type-species by original designation *Papilio edusa* Fabricius, Mant. Ins., 2: 23 (1787) *(=Papilio*

croceus Fourcroy, Ent. Paris.; 250; 1785), not *Papilio edusa* Fabricius, Gen. Ins.: 255 (1777).

= *Coliastes* Hemming, Entomologist, 64: 273 (1931). Type-species by original designation *Papilio hyale* Linnaeus, Syst. Nat., ed. 10, 1: 469 (1758).

1. **philodice** Godart. Enc. Meth., 9: 100 [1819]. TL — "Virginia". HT probably in MNHN [see **Note 279**].

a. **p. philodice** Godart. Enc. Meth., 9: 100 [1819]. TL — "Virginia". HT probably in MNHN [see **Note 279**]. **351a.**

= *dorippe* Godart. Enc. Meth., 9: 101 [1819]. TL — "Cape of Good Hope", in error. HT should be in MNHN.

= *maria* W. H. Edwards. Papilio, 4: 171 (1884). TL not stated. Type lost, a Grote cyanide-stained specimen.

= *notatus* A. and L. Clark. Proc. Ent. Soc. Washington, 43: 83 (1941). TL not stated. No type, name an attempt to validate one in Megerle's 1803 sale catalogue.

= spring f. "anthyale" (Hübner) *ZERENE*. Zutr. z. Samml. exot. Schmett., 2: pl. 54, figs. 307-308 [1823]. TL not stated. Type lost [see **Note 9**].

= ♀ f. "pallidice" Scudder. Butts. E. U. S. Canada, 2: 1115 (1889). TL not stated. Type was figure in W. H. Edwards, Butts. N. America, 2: Colias II, fig. 6 (1876).

= ‡ ♀ f. "alba" Strecker. Syn. Cat. Macrolepid.: 82 (1876). TL not stated. Type was figure in W. H. Edwards, Butts. N. America, 2: Colias II, fig. 6 (1876). Preoccupied by *alba* Staudinger, Cat. Lepid. Europaischen Faunengeb.: 6 (1871).

= ♀ f. "miscidice" Scudder. Butts. E. U. S. Canada, 2: 1115 (1889). TL — Lynn, Massachusetts. HT lost.

= ♀ f. "albinic" Skinner. Syn. Cat. N. American Rhop.: 68 (1898). TL not stated. Type was figure in W. H. Edwards, Butts. N. America, 2: Colias II, fig. 6 (1876) [see **Note 280**].

= ‡ ♀ f. "alba" Röber. *in* Seitz, Grossschmett. Erde, 5: 91 (1909). TL not stated. Type probably lost in Dresden, World War II. Preoccupied by *alba* Staudinger, Cat. Lepid. Europaischen Faunengeb.: 6 (1871).

= ‡ ♀ b. "alba" F. Chermock. Bull. Brooklyn Ent. Soc., 22: 118 (1927). TL — north side Pittsburgh, Pennsylvania. HT in AME. Preoccupied by *alba* Staudinger, Cat. Lepid. Europaischen Faunengeb.: 6 (1871).

= ♀ f. "albida" F. Chermock. Bull. Brooklyn Ent. Soc., 23: 173 (1928). TL — north side Pittsburgh, Pennsylvania. HT in AME. Replacement name for *alba* F. Chermock (see above); preoccupied.

= ♂ f. "nig" Strecker. Syn. Cat. Macrolepid.: 82 (1876). TL — Palmyra, New York. HT lost [see **Note 281**].

= ♂ f. "nigridice" Scudder. Butts. E. U. S. Canada, 2: 1114 (1889). TL — Palmyra, New York. Type apparently lost.

= ♂ f. "melanic" Skinner. Syn. Cat. N. American Rhop.: 69 (1898). TL not stated. Type was figure in W. H. Edwards, Butts. N. America, 2: Colias III, figs. 8-9 (1876) [see **Note 282**].

= ♂ f. "nigrina" Strecker. Lepid. Rhop. Het., Suppl. 3: 19 (1900). TL — Bethlehem, Pennsylvania. HT in FMNH.

= ♂ f. "serrata" (F. Chermock) *EURYMUS*. Bull. Brooklyn Ent. Soc., 24: 21 (1929). TL — Ross Grove, nr. Aspinwall, Pennsylvania. HT in AME.

= ab. "virida" Strecker. Syn. Cat. Macrolepid.: 82 (1876). TL — Montreal, Quebec. HT in FMNH.

= ab. "suffusa" Cockerell. Entomologist, 22: 310 (1889). TL — "Massachusetts". Name based on Maynard, Butts. N. England: pl. 57 (1886).

= ‡ ab. "nigrofasciata" Reiff. The Lepid., 1: 22-23 (1917). TL — Belchertown, Massachusetts. Loc. of type not known. Preoccupied by *nigrofasciata* Grum-Grschimailo, Mem. Romanoff, Lepid., 1: 163 (1884).

= ab. "rothkei" Reiff. The Lepid., 1: 84 (1917). TL — Susquehanna Valley, Pennsylvania. Loc. of type not known.

= ab. "lutetincta" Wolcott. Canadian Ent., 25: 104 (1893). TL — Batavia, Illinois. HT may be in Univ. Nebraska colln.

= ab. "inversata" Nakahara. Bull. Brooklyn Ent. Soc., 20: 223 (1925). TL — Millvale, Allegheny Co., Pennsylvania. HT in USNM.

= ab. "plicaduta" Nakahara. Bull. Brooklyn Ent. Soc., 20: 222 (1925). TL — Ithaca, New York. HT in USNM.

= ab. "reducta" Dufrane. Bull. Ann. Soc. Ent. Belgique, 83: 69 (1947). TL — Temple, Pennsylvania. HT probably in Tervuren, Belgium.

= ab. "ehrmanni" F. Chermock. Bull. Brooklyn Ent. Soc., 22: 118 (1927). TL — north side Pittsburgh, Pennsylvania. HT in AME.

= ab. "minor" F. Chermock. Bull. Brooklyn Ent. Soc., 22: 118 (1927). TL — north side Pittsburgh, Pennsylvania. HT in AME.

= ab. "raritus" (Gunder) *EURYMUS*. Canadian Ent., 60: 163 (1928). TL — Scranton, Pennsylvania. HT in AMNH.

b. **p. vitabunda** Hovanitz. American Mus. Novitates, (1240): 3-4 (1943). TL — Mt. McKinley Natl. Park, Alaska. HT in AMNH [see **Note 283**]. **351b.**

= ♀ f. "pallidissima" Bowman. Canadian Ent., 74: 25 (1942). TL — Fort Vermillion, [Alberta]. HT in CNC.

c. **p. eriphyle** W. H. Edwards. Trans. American Ent. Soc., 5: 202-204 (1876). TL — Lake Lahache (misspelled as "Labache"), British Columbia. LT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 99: 87 (1973) [see **Note 284**]. **351c.**

= *flava* Strecker. Syn. Cat. Macrolepid.: 83 (1878). TL not stated. Type appears to be lost (not in Strecker colln., FMNH).

= *hageni* W. H. Edwards. Papilio, 3: 160-161 (1883). TL — restricted to NE corner of S. Park, Park Co., Colorado, by F. M. Brown, Trans. American Ent. Soc., 99: 87 (1973). LT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 99: 90 (1973).

= autumn f. "autumnalis" Cockerell. W. American Sci., 4: 42 (1888). TL —Westcliffe, Colorado. Type apparently lost.

= alt. f. "kootenai" Cockle. Canadian Ent., 42: 203-204 (1910). TL — Kaslo, British Columbia. HT in CNC.

= ab. "laurae" (F. Chermock) *EURYMUS*. Bull. Brooklyn Ent. Soc., 24: 21 (1929). TL — Edmonton, Alberta. HT in AME.

= ab. "nigricosta" (F. Chermock) *EURYMUS*. Bull. Brooklyn Ent. Soc., 24: 21 (1929). TL — Edmonton, Alberta. HT in AME.

2. **eurytheme** Boisduval. Ann. Soc. Ent. France, (2)10: 286 (1852). TL — "toute de Californie". HT apparently in USNM [see **Notes 22, 285 and 286**]. **352.**

= *ariadne* W. H. Edwards. Trans. American Ent. Soc., 3: 2-13 (1870). TL — Mokeluma Hills, nr. San Francisco, California. LT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 99: 83 (1973).

= *californiana* Ménétriés. Enum. Mus. Petropolitana, Lepid. 1: 80 (1855). TL — "California". Type(s) should be in Zool. Mus. Leningrad.

= *hybrida* Strecker. Syn. Cat. N. American Macrolepid.: 82 (1878). TL —

[Rock Island], Illinois. HT (named from figure in W. H. Edwards, Butts. N. America, 2: pl. Colias III, fig. 1; 1869) must be in CM.

= *keewaydin* W. H. Edwards. Butts. N. America, 1: 49 (1869). TL — restricted to Sedalia, Missouri by F. M. Brown, Trans. American Ent. Soc., 99: 79-81 (1973). LT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 99: 81 (1973) [see **Note 287**].

= *typica* Cockerell. W. American Sci., 4(33): 41-43 (1888). TL — probably vic. of Westcliffe, Custer Co., Colorado. Type probably lost: we suspect this name was proposed inadvertently as a description of the typical form.

= *alberta* Bowman. Canadian Ent., 74: 25 (1942). TL — Wembley, Alberta. HT in CNC [see **Note 288**].

= summer f. "amphidusa" Boisduval. Ann. Soc. Ent. France, (2)10: 286-287 (1852). TL — "du nord de Californie". HT apparently in USNM [see **Notes 22** and **289**].

= ‡ ♀ f. "alba" Strecker. Syn. Cat. N. American Macrolepid.: 83 (1878). TL not stated and no type designated: name based on two figures in W. H. Edwards, Butts. N. America (1869) [see **Note 290**]. Preoccupied by *alba* Staudinger, Cat. Lepid. Europaischen Faunengeb.: 6 (1871).

= ‡ ♀ f. "pallida" Cockerell. W. American Sci., 4(33): 41-43 (1888). TL — probably vic. Westcliffe, Custer Co., Colorado. Type probably lost. Preoccupied by *pallida* Staudinger, Cat. Lepid. Europe: 3 (1860).

= ♀ ab. "intermedia" Cockerell. W. American Sci., 4(33): 41-43 (1888). TL — probably vic. Westcliffe, Custer Co., Colorado. Type probably lost.

= ♀ ab. "fumosa" Strecker. Lepid. Rhop. Het., Suppl. 3: 19 (1900). TL — "Colorado". HT in FMNH.

= ♀ ab. "albina" Röber. *in* Seitz, Grossschmett. Erde, 5: 93 (1909). TL not stated. HT apparently in ZMHU.

= ♂ ab. "unicitrina" (Gunder) *EURYMUS*. Ent. News, 35: 158 (1924). TL — Upland, Los Angeles Co., California. HT in AMNH. May apply to *eriphyle*.

= ♀ ab. "rudkini" (Gunder) *EURYMUS*. Canadian Ent., 64: 277-278 (1932). TL — San Marino, Los Angeles Co., California. HT in AMNH.

3. **harfordii** Hy. Edwards. Pac. Coast Lepid., (24): 9 (1877) [see **Note 291**]. TL — Havilah, Kern Co., California. HT in AMNH [see **Notes 292** and **293**]. **353.**

= *barbara* Hy. Edwards. Pacific Coast Lepid., (24): 7-8 (1877). TL — Santa Barbara, California. HT in AMNH. The ♀ of *harfordii*.

= ab. (or hybrid with *eurytheme*??) "weaverae" (Gunder) *EURYMUS*. Ent. News, 35: 156 (1924). TL — Warner Springs, San Diego Co., California. HT (not allotype as stated) in AMNH.

= ♀ ab. "martini" (Gunder) *EURYMUS*. Bull. S. California Acad. Sci., 30: 45 (1931). TL — S side Arrowhead L., San Bernardino Co., California. HT in AMNH.

4. **occidentalis** Scudder. Proc. Boston Soc. Nat. Hist., 9: 109 (1862). TL — "Gulf of Georgia, Fort Simpson, British America", probably vic. Vancouver, British Columbia. HT should be in MCZ.

a. **o. occidentalis** Scudder. Proc. Boston Soc. Nat. Hist., 9: 109 (1862). TL — "Gulf of Georgia, Fort Simpson, British America", probably vic. Vancouver, British Columbia. HT should be in MCZ. **354a.**

b. **o. chrysomelas** Hy. Edwards. Pac. Coast Lepid., (24): 8-9 (1877). TL — Napa Co., California. HT in AMNH [see **Note 294**]. **354b.**

= ♀ f. "shastae" (Barnes and Benjamin) *EURYMUS*. Bull. S. California Acad. Sci., 35: 88 (1926). TL — Shasta Retreat, Siskiyou Co., California. HT in USNM. Described as a "♂".

5. **alexandra** W. H. Edwards. Proc. Ent. Soc. Philadelphia, 2: 14-15 (1863). TL — "Pike's Peak", restricted to foothills W of Denver, Colorado by F. M. Brown, Trans. American Ent. Soc., 99: 60 (1973). LT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 99: 62 (1973).
   a. **a. alexandra** W. H. Edwards. Proc. Ent. Soc. Philadelphia, 2: 14-15 (1863). TL — "Pike's Peak", restricted to foothills W of Denver, Colorado by F. M. Brown, Trans. American Ent. Soc., 99: 60 (1973). LT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 99: 62 (1973). **355a.**
      = ‡ ♀ f. "alba" Strecker. Syn. Cat. N. American Macrolepid.: 81 (1878). TL not stated. Type seems to be lost. Preoccupied by *alba* Staudinger, Cat. Lepid. Europaischen Faunengeb.: 6 (1871).
      = ‡ ♀ f. "pallida" Cockerell. Entomologist, 22: 128 (1889). TL not stated, but is specimen mentioned by W. H. Edwards, Canadian Ent., 19: 229 (1887). HT should be in CM. Preoccupied by *pallida* Staudinger, Cat. Lepid. Europe: 3 (1860).
   b. **a. edwardsii** W. H. Edwards. Trans. American Ent. Soc., 3: 11 (1870). TL — vic. Virginia City, Nevada. LT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 99: 67 (1973). **355b.**
      = *emilia* W. H. Edwards. Trans. American Ent. Soc., 3: 12 (1870). TL — "Oregon", restricted to Crump L., Lake Co., Oregon by F. M. Brown, Trans. American Ent. Soc., 99: 69 (1973). NT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 99: 72 (1973).
         = ♀ f. "hatui" (Barnes and Benjamin) *EURYMUS*. Bull. S. California Acad. Sci., 25: 89 (1926). TL — Stockton, Utah. HT in USNM.
   c. **a. columbiensis** Ferris. J. Lepid. Soc., 27: 68-71 (1973). TL — Anderson L., D'Arcy, British Columbia. HT in CNC [see **Note 295**]. **355c.**
   d. **a. astraea** W. H. Edwards. Trans. American Ent. Soc., 4: 61 (1872). TL — Yellowstone L., Yellowstone Natl. Pk., Wyoming. HT in CNC. **355d.**
   e. **a. christina** W. H. Edwards. Proc. Ent. Soc. Philadelphia, 2: 79-80 (1863). TL — "portage of the Slave River", N. W. T. LT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 99: 63 (1973). **355e.**
      = ‡ ♀ f. "pallida" Cockerell. Entomologist, 22: 128 (1888). TL not stated, but is specimen mentioned by Lyman, Canadian Ent., 16: 6 (1884). HT may be in Lyman Ent. Mus. Preoccupied by *pallida* Staudinger, Cat. Lepid. Europe: 3 (1860).
   f. **a. krauthii** Klots. American Mus. Novitates, (767): 1-2 (1935). TL — Black Hills, 12 mi. W of Custer, Custer Co., South Dakota. HT in AMNH. **355f.**
6. **meadii** W. H. Edwards. Trans. American Ent. Soc., 3: 267-268 (1871). TL — Mosquito Pass, Park-Lake Cos., Colorado, so restricted by F. M. Brown, Trans. American Ent. Soc., 99: 91 (1973). LT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 99: 93 (1973).
   a. **m. meadii** W. H. Edwards. Trans. American Ent. Soc., 3: 267-268 (1871). TL — Mosquito Pass, Park-Lake Cos., Colorado, so restricted by F. M. Brown, Trans. American Ent. Soc., 99: 91 (1973). LT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 99: 93 (1973). **356a.**
      = ♀ f. "medi" (Gunder) *EURYMUS*. Canadian Ent., 66: 125 (1934). TL — Breckenridge Peak, "Empire Co." (probably Summit Co.), Colorado. HT in AMNH.
   b. **m. elis** Strecker. Proc. Acad. Nat. Sci. Philadelphia, 37: 24 (1885). TL — Kicking Horse Pass, British Columbia. HT in FMNH. **356b.**
      = ♀ f. "lambillioni" Dufrane. Ann. Soc. Ent. Belgique, 83: 70 (1947). HT probably in Tervuren Mus.
7. **hecla** Lefèbvre. Ann. Soc. Ent. France, 5: 383-387 (1836). TL — "Island" (=Greenland). Type was auctioned and presumably lost [see **Note 296**].
   a. **h. hecla** Lefèbvre. Ann. Soc. Ent. France, 5: 383-387 (1836). TL — "Island" (=Greenland). Type was auctioned in Paris and presumed lost [see **Note 296**]. **357a.**

= groenlandica Lampa. *in* Rühl-Heyne, Palaearktischen Grossschmett., 1: 158 (1895). TL not stated. Loc. of type not known.

= ‡ ♀ f. "pallida" Skinner and Mengel. Proc. Acad. Nat. Sci. Philadelphia, 44: 156 (1892). TL — "Greenland", specimens from Disko I., W. Greenland. ST's in CM [see **Note 297**]. Preoccupied by *pallida* Staudinger, Cat. Lepid., Europe: 3 (1860).

= ♀ f. "palamedes" Hemming. Stylops, 3: 98 (1934). TL — "Greenland", specimens from Disko I., W. Greenland. ST's in CM. Name proposed to replace "pallida" Skinner and Mengel (see above), preoccupied.

b. **h. hela** Strecker. Bull. Brooklyn Ent. Soc., 3: 33 (1880). TL — "above Fort Churchill", [Manitoba]. ST's in FMNH. **357b.**

= ‡ f. "chrysothemoides" Verity. Rhop. Palaearctica: 356 (1911). TL not stated in text, but plate from vic. Coppermine, N.W. T. HT may be in BM or lost. Preoccupied by *chrysothemoides* Verity, Rhop. Palaearctica: 219 (1908).

c. **h. glacialis** M'Lachlan. J. Linnaean Soc. London, 14: 108 (1878). TL — "Grinnell Land, Alaska; Greenland". ST's in BM. **357c.**

8. **boothii** Curtis. Nat. Hist. Append. *in* Ross., Voy. Search Northwest Pass.: 65 (1835). TL — Boothia peninsula, Northwest Territories. HT in USNM [see **Note 298**]. **358.**

= f. "chione" Curtis. Nat. Hist. Append. *in* Ross, Voy. Search Northwest Pass.: 65 (1835). TL — Boothia peninsula, Northwest Territories. Type may be in USNM (or BM?).

9. **thula** Hovanitz. Wasmann J. Biol., 13: 2-4 (1955). TL — Mead R., S of Point Barrow, Alaska. HT in USNM. **359.**

10. **nastes** Boisduval. Icon. Hist. Lepid. Europe: pl. 8 (♂ only) (1832). TL — northeastern Labrador. HT apparently in USNM [see **Note 22**].

a. **n. nastes** Boisduval. Icon. Hist. Lepid. Europe: pl. 8 (♂ only) (1832). TL — northeastern Labrador. HT apparently in USNM [see **Note 22**]. **360a.**

= *standfussi* Röber. *in* Seitz, Grossschmett. Erde, 5: 91 (1909). TL not stated. ST's probably in ZMHU. Described as a possible *nastes* x *pelidne* hybrid.

b. **n. rossii** Guenée. Ann. Soc. Ent. France, (4)4: 199 (1864). TL — Boothia peninsula, Northwest Territories. HT apparently in USNM [see **Note 22**]. **360b.**

= *gueneei* Avinoff. *in* Holland and Avinoff, Mem. Carnegie Mus., 12: 13-14, 21-22, 25-27 (1935). TL — Southampton I., Northwest Territories. HT in CM.

c. **n. moina** Strecker. Bull. Brooklyn Ent. Soc., 3: 34 (1880). TL — "above Fort Churchill, [Manitoba]. ST's in FMNH. **360c.**

= ab. "cocandicides" Verity. Rhop. Palaearctica: xxxvii (1911). TL — vic. Coppermine R., Northwest Territories. HT may be in BM.

= ab. "harperi" (Gunder) *EURYMUS*. Canadian Ent., 64: 278 (1932). TL — Fort Churchill, Manitoba. HT in AMNH.

d. **n. streckeri** Grum-Grschimailo. Horae Soc. Ent. Rossiae, 29: 290 (1895). TL — Laggan, Alberta. ST's in FMNH. **360d.**

= ab. "obscurata" Verity. Rhop. Palaearctica: pl. 61, fig. 6 (1911). TL — Lake Louise, Alberta. HT may be in BM.

= ab. "palliflava" (McDunnough) *EURYMUS*. Canadian Ent., 59: 154 (1927). TL — Mt. McLean, nr. Lillooet, British Columbia. HT in CNC.

e. **n. subarctica** (McDunnough) *EURYMUS*. Canadian Ent., 60: 270-271 (1928). TL — Barnard Harbour, Northwest Territories. HT in CNC. **360e.**

f. **n. aliaska** Bang-Haas. Horae Macrolepid., 1: 41 (1927). TL — "Alaska". HT in ZMHU [see **Note 299**]. **360f.**

11. **scudderi** Reakirt. Proc. Ent. Soc. Philadelphia, 4: 217-218 (1865). TL — "Rocky Mountains, Colorado Territory", here fixed as vic. Empire, Clear Creek Co., Colorado. HT in FMNH.
    a. s. **scudderi** Reakirt. Proc. Ent. Soc. Philadelphia, 4: 217-218 (1865). TL — "Rocky Mountains, Colorado Territory", here fixed as vic. Empire, Clear Creek Co., Colorado. HT in FMNH. 361a.
        = ♀ f. "flavotincta" Cockerell. Psyche, 9: 186 (1901). TL not stated, but reference made to specimens from Twin Lakes, Lake Co., Colorado, figured by W. H. Edwards, Butts. N. America, 1: pl. *Colias* VIII, figs. 3 [and 4], wrongly cited as pl. 10. ST's should be in CM.
    b. s. **ruckesi** Klots. J. New York Ent. Soc., 45: 324-326 (1937). TL — Windsor Cr. Canyon, W of Cowles, New Mexico. HT in AMNH. 361b.
12. **gigantea** Strecker. Lepid. Rhop. Het., Suppl. 3: 19 (1900). TL — "west coast of Hudson Bay above Fort York". ST's in FMNH.
    a. g. **gigantea** Strecker. Lepid. Rhop. Het., Suppl. 3: 19 (1900). TL — "west coast of Hudson Bay above Fort York". ST's in FMNH. 362a.
        = *pelidneides* Staudinger. *in* Staudinger and Rebel, Cat. Lepid. Palaearctica: 15 (1901). TL — "Hudson's Bay, Manitoba". HT in ZMHU.
    b. g. **harroweri** Klots. American Mus. Novitates, (1054): 4-6 (1940). TL — Clear Cr., vic. Lower Green R. Lake, Sublette Co., Wyoming. HT in AMNH. 362b.
    c. g. **mayi** F. and R. Chermock. Canadian Ent., 72: 81 (1940). TL — Riding Mtns., Manitoba. HT in CNC. 362c.
        = f. "marjorie" F. and R. Chermock. Canadian Ent., 72: 82 (1940). TL — Riding Mtns., Manitoba. HT in CNC.
13. **pelidne** Boisduval and Leconte. Hist. Lepid. Amerique sept.: 66 (1829). TL — NE coast of Labrador. HT may be in USNM [see **Notes 22** and **300**].
    a. p. **pelidne** Boisduval and Leconte. Hist. Lepid. Amerique sept.: 66 (1829). TL — NE coast of Labrador. HT may be in USNM [see **Notes 22** and **300**]. 363a.
        = *labradorensis* Scudder. Proc. Boston Soc. Nat. Hist., 9: 107-108 (1862). TL — Caribou I., Straits of Belle Islands, [Newfoundland]. ST's in MCZ.
            = ab. "moeschleri" Grum-Grschimailo. Horae Soc. Ent. Rossiae, 27: 379 (1894). TL — "Labrador". HT in ZMHU.
            = ab. "mira" Verity. Rhop. Palaearctica: 347 (1911). TL — Ravea, Labrador. HT in BM.
    b. p. **minisni** Bean. Psyche, 7: 228 (1895). TL — Laggan, Alberta. Loc. of type not known [see **Note 301**]. 363b.
        = ♀ f. "isni" (Barnes and Benjamin) *EURYMUS*. Bull. S. California Acad. Sci., 25: 89 (1926). TL — Laggan, Alberta. HT in USNM.
    c. p. **skinneri** Barnes. Canadian Ent., 29: 39 (1897). TL — Yellowstone Natl. Pk., Wyoming. HT in USNM. 363c.
        = ♀ f. "neri" (Barnes and Benjamin) *EURYMUS*. Bull. S. California Acad. Sci., 25: 89 (1926). TL — Yellowstone Natl. Park, Wyoming. HT in USNM.
14. **interior** Scudder. Proc. Boston Soc. Nat. Hist., 9: 108 (1862). TL — "N shore of L. Superior". HT should be in MCZ [see **Notes 302** and **303**].
    a. **i. interior** Scudder. Proc. Boston Soc. Nat. Hist., 9: 108 (1862). TL — "N shore of L. Superior". HT should be in MCZ [see **Notes 302** and **303**]. 364a.
        = ♀ f. "nepi" (Barnes and Benjamin) *EURYMUS*. Bull. S. California Acad. Sci., 25: 89 (1926). TL — Nepigon [*sic.*], Ontario. HT in USNM.
    b. **i. laurentina** (Scudder) *EURYMUS*. Proc. Boston Soc. Nat. Hist., 18: 188-190 (1876). TL — Cape Breton Island, Nova Scotia. HT should be in MCZ. 364b.
    c. **i. vividior** Berger. Lambillionia, 45: 42 (1945). TL — Eagle River and Oneida, Wisconsin. HT probably in Tervuren. 364c.

*15. **palaeno** (Linnaeus) *PAPILIO*. Fauna Suecia: 272 (1761). TL — Uppsala, Sweden. Type may be in BM, Linnaean Soc. London, Univ. Mus. Uppsala

or lost [see **Note 75**].

a. **p. chippewa** W. H. Edwards. Butts. N. America, Syn.: 9 (1872). TL — W end Great Slave L., Northwest Territories. LT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 99: 55 (1973). Proposed to replace *C. helena* W. H. Edwards, Proc. Ent. Soc. Philadelphia, 2: 80 (1863); preoccupied. **365a.**

= ‡*helena* W. H. Edwards. Proc. Ent. Soc. Philadelphia, 2: 80 (1863). TL — W end Great Slave L., Northwest Territories. LT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 99: 55 (1973). Preoccupied by *helena* Herrich-Schäffer, Europaischer Schmett., 1: figs. 206-207 (1844).

= ab. "kohlsaati" (Gunder) *EURYMUS*. Bull. S. California Acad. Sci., 30: 45 (1931). TL — Mt. McKinley Nat. Pk., Alaska. HT in AMNH.

b. **p. baffinensis** Ebner and Ferris. J. Res. Lepid., 16: 156-160 (1977). TL — Frobisher Bay, Baffin I., Northwest Territories. HT in AMNH. **365b.**

16. **behrii** W. H. Edwards. Proc. Ent. Soc. Philadelphia, 6: 201 (1866). TL — "Yosemite mountains", restricted to vic. Tioga Pass, Tuolumne-Mono Cos., California by F. M. Brown, Trans. American Ent. Soc., 99: 51-52 (1973). LT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 99: 52 (1973). **366.**

= ♀ f. "canescens" (J. A. Comstock) *EURYMUS*. Bull. S. California Acad. Sci., 24: 3 (1925). TL — Tioga Pass, Yosemite, California. HT in LACM.

Genus CIX: **Zerene** Hübner

Verz. bekannt. Schmett., (7): 97 [1819]. Type-species by designation of Scudder, 4th Ann. Rept. Peabody Acad. Sci., [1871]: 59 (1872) *Papilio cesonia* Stoll, Aanhangs. Werk Uitl. Kapellen Pieter Cramer: 176 [1790].

= *Megonostoma* Reakirt, Proc. Ent. Soc. Philadelphia, 2: 356 (1863). Type-species by designation of Butler, Cist. Ent., 1: 46 (1870) *Papilio cesonia* Stoll, Aanhangs. Werk Uitl. Kapellen Pieter Cramer: 176 [1790] [see **Note 304**].

1. **eurydice** (Boisduval) *COLIAS*. Ann. Soc. Ent. France, (3): xxxii (1855). TL — "mountains of California". HT apparently in USNM [see **Note 22**]. **367.**

= *lorquini* (Boisduval) *RHODOCERA* (normal ♀ or *eurydice*). Ann. Soc. Ent. France, (3): xxxii (1855). TL — "mountains of California". HT might be in USNM, MNHN or lost.

= *wosnesenskii* (Ménétriés) *COLIAS*. Cat. Lepid. Mus. Petropolitana, 1: 77 (1855). TL — "California". HT should be in Leningrad.

= *helena* (Reakirt) *MEGONOSTOMA*. Proc. Ent. Soc. Philadelphia, 2: 358 (1863). TL — "Chiapas", surely in error. Loc. of type not known (not in FMNH).

= *amorphae* (Hy. Edwards) *COLIAS*. Proc. California Acad. Nat. Sci., 6: 6-7 (1876). TL — "California". HT in AMNH.

= ♂ f. "bernardino" (W. H. Edwards) *COLIAS*. Butts. N. America, 3: [71-72] (1887). TL — San Bernardino, California. LT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 99: 97 (1973).

= ♂ f. "lineainita" Gunder. Pan-Pac. Ent., 4: 101-102 (1928). TL — San Bernardino Mtns., California. HT in AMNH.

= ♀ f. "masumbrosus" Gunder. Pan-Pac. Ent., 4: 100-101 (1928). TL — "California". HT in AMNH.

= ♀ f. "doudoroffi" Gunder. Pan-Pac. Ent., 8: 125 (1932). TL — L. Alpine, Fairfax, Marin Co., California. HT in AMNH.

= ab. "fanniae" Gunder. Ent. News, 35: 158 (1924). TL — San

Bernardino Mtns., San Bernardino Co., California. HT in AMNH.
= ab. "newcombi" Gunder. Ent. News, 36: 4-5 (1925). TL — San Bernardino Mtns., San Bernardino Co., California. HT in AMNH.

2. **cesonia** (Stoll) *PAPILIO.* Aanhangs. Werk Uitl. Kapellen Pieter Cramer, 176 [1790]. TL — "Georgia", *fide* Klots. Loc. of type not known [see **Notes 15, 305** and **306**].

a. **c. cesonia** (Stoll) *PAPILIO.* Aanhangs. Werk Uitl. Kapellen Pieter Cramer: 176 [1790]. TL — "Georgia", *fide* Klots. Loc. of type not known [see **Notes 15, 305** and **306**]. **368a.**

= autumn f. "rosa" (M'Neill) *COLIAS.* Canadian Ent., 21: 43-45 (1889). TL — Rock Island and Moline, Illinois. Types probably lost [see **Note 307**].

= f. "rosea" (Röber) *MEGANOSTOMA [sic.] in* Seitz, Grossschmett. Erde, 5: 94 (1909). TL — "Colorado". HT was in Dresden (destroyed in World War II?).

= ♀ f. "stainkeae" Field. J. Ent. Zool. (Pomona Coll.), 28: 20 (1936). TL — Donna, Texas. HT in USNM.

= ab. "immaculsecunda" Gunder. Pan-Pac. Ent., 4: 102 (1928). TL — Pinery Canyon, Arizona. HT in AMNH.

Genus CX: **Anteos** Hübner

Verz. bekannt. Schmett., (7): 99 [1819]. Type-species by designation of Godman and Salvin, Biol. Cent.-Americana, Lepid. Rhop., 2: 148 (1889), *Papilio maerula* Fabricius, Syst. Ent.: 479 (1775) [see **Note 308**].

= *Amynthia* Swainson, Zool. Illustr., (2)2: pl. "65" *(recte* 63) (1831). Type-species by original designation *Papilio "merula" (=maerula)* Fabricius, Syst. Ent.: 479 (1775).

*1. **clorinde** (Godart) *COLIAS.* Enc. Meth., 9, Suppl.: 813 [1824] "1819". TL — "Brasil". Type may be in MNHN.

= *godarti* (Perty) *COLIAS.* Del. Anim. Artic.: 152 [1833]. TL — "Brasil". Loc. of type not known.

= *swainsonia* (Swainson) *CYNTHIA.* Zool. Illustr., (2)2: pl. 65 (1833). TL not stated. Type probably lost, collection auctioned in 1840.

a. **c. nivifera** (Fruhstorfer) *GONEPTERYX.* Stettiner Ent. Ztg., 68: 294 (1907). TL — "Mexico". Type may be in BM or elsewhere. **369a.**

2. **maerula** (Fabricius) *PAPILIO.* Syst. Ent.: 479 (1775). TL — "Jamaica". ST's in Univ. Mus., Glasgow [see **Notes 309** and **310**]. **370.**

= *lacordairei* (Boisduval) *RHODOCERA.* Hist. Nat. Ins., Spec. gén. Lépid., 1: 600 (1836). TL — "Mexico". Type may be in MNHN.

= *gueneeana* (Boisduval) *RHODOCERA.* Hist. Nat. Ins., Spec. gén. Lépid., 1: 601 (1836). TL — "Mexico". Type may be in MNHN.

= ♀ f. "flava" (Röber) *GONEPTERYX. in* Seitz, Grossschmett. Erde, 5: 89 (1910). TL not mentioned. Type may be in Dresden (lost in World War II?) or ZMHU.

Genus CXI: **Phoebis** Hübner

Verz. bekannt. Schmett., (7): 98 [1819]. Type-species by designation of Butler, Lepid. Exot., 1: 155 (1873), *Phoebis cypris* Hübner, Verz. bekannt. Schmett., (7): 98 [1819] (=*Papilio argante* Fabricius, Syst. Ent.: 470; 1775) [see **Note 311**].

= ‡*Colias* Hübner, Verz. bekannt. Schmett., (7): 90 [1819]. Type-species by designation of Hemming, Proc. R. Ent. Soc. London, (B)8: 136 (1939),

Papilio sennae Linnaeus, Syst. Nat., ed. 10, 1: 470 (1758). Preoccupied by *Colias* Fabricius, Mag. f. Insektenk. (Illiger), 6: 284 (1807).

= *Callidryas* Boisduval and Leconte, Hist. Lépid. Amerique sept., (8): 73 [1830]. Type-species by designation of Blanchard, Hist. Nat. Ins., 3: 432 (1840), *Papilio eubule* Linnaeus, Syst. Nat., ed. 12, 1(2): 764 (1767) *(=Papilio sennae* Linnaeus, Syst. Nat., ed. 10, 1: 470; 1758; subspecies).

= ‡*Metura* Butler, Lepid. Exot.: 155 (1873). Type-species by designation of Scudder, Proc. American Acad. Arts Sci., 10: 218 (1875), *Callidryas bracteolata* Butler, Proc. Zool. Soc. London, [1865]: 458 (1865). Preoccupied by *Metura* Walker, List. Spec. Lepid. Ins. British Mus., 4: 961 (1855).

= *Parura* W. F. Kirby, *in* Allen's Nat. Libr., Lepid. 2: 229 (1896). Type-species, as replacement name, *Callidryas bracteolata* Butler, Proc. Zool. Soc. London, [1865]: 458 (1865). Proposed to replace *Metura*, preoccupied (see above).

*1. **sennae** (Linnaeus) *PAPILIO*. Syst. Nat., ed. 10, 1: 470 (1758). TL — "Jamaica". Loc. of type not known.

*a. s. **sennae** (Linnaeus) *PAPILIO*. Syst. Nat., ed. 10, 1: 470 (1758). TL — "Jamaica". Loc. of type not known. **371a.**

b. s. **eubule** (Linnaeus) *PAPILIO*. Syst. Nat., ed. 12, 1(2): 764 (1767). TL — probably vic. Charleston, South Carolina. Loc. of type not known. **371b**

= *drya* (Fabricius) *PAPILIO*. Ent. Syst., 3(1): 210 (1793). TL — probably vic. of Charleston, South Carolina. Type appears to be lost.

= ♀ f. "pallida (Cockerell) *CATOPSILIA*. Entomologist, 22: 5 (1889). TL not stated. Type perhaps never existed; name based on figure in French, Butts. E. U. S. (1886).

= ♀ f. "browni" Field. J. Ent. Zool. (Pomona Coll.), 28: 20 (1936). TL — Lawrence, Kansas. HT in USNM.

c. s. **marcellina** (Cramer) *PAPILIO*. Uitl. Kapellen, 2: 103 [1779]. TL — "Mexico". Type probably lost [see **Note 7**]. **371c.**

= f. "yamana" (Reakirt) *CATOPSILIA*. Proc. Ent. Soc. Philadelphia, 2: 352 (1863). TL — "Honduras". Type may be in CM or lost, not in FMNH.

= ab. "schausi" (Oberthür) *CALLIDRYAS*. Etudes Lepid. Comp., 6: 328 (1912). TL — Novo Friburgo, Brasil. HT in BM.

2. **philea** (Johansson) *PAPILIO*. Amoen. Acad., 6: 404 (1763). TL — probably Surinam. Type may be in Uppsala.

a. **p. philea** (Johansson) *PAPILIO*. Amoen. Acad., 6: 404 (1763). TL — probably Surinam. Type may be in Uppsala. [see **Note 312**]. **372a.**

= *aricye* (Cramer) *PAPILIO*. Uitl. Kapellen, 1: 147 [1779]. TL — "Surinam". Type probably lost [see **Notes 7** and **313**].

= *melanippe* (Stoll) *PAPILIO*. *in* Cramer, Uitl. Kapellen, 4: 139-140 [1782]. TL — "Surinam". Type probably lost [see **Note 15**].

= ‡*argante* (Hübner) MANCIPIUM. Samml. exot. Schmett., 1: pl. 145 [1814]. TL not stated. Type probably lost [see **Note 9**]. Preoccupied by *argante* Fabricius, Syst. Ent.: 470 (1775).

= *corday* (Hübner) *COLIAS*. Verz. bekannt. Schmett., (7): 99 [1819]. TL not known. Type probably lost [see **Note 9**].

= *lollia* (Godart) *COLIAS*. Enc. Meth., 9: 94 [1819]. TL not stated. HT may be in MNHN.

= ♀ f. "obsoleta" (Niepelt) *CATOPSILIA*. Internatl. Ent. Zts., 17: 17 (1920). TL — "Costa Rica". Loc. of type not known (sold).

3. **argante** (Fabricius) *PAPILIO*. Syst. Ent.: 470 (1775). TL — Rio de Janeiro, Brasil. HT in BM.

a. **a. argante** (Fabricius) *PAPILIO*. Syst. Ent.: 470 (1775). TL — Rio de Janeiro, Brasil. HT in BM. **373a.**

= *cipris* (Cramer) *PAPILIO*. Uitl. Kapellen, 2: 5 [1777]. TL — "Surinam".

Type may be lost or in Leiden [see **Note 7**].

= *hersilia* (Cramer) *PAPILIO*. Uitl. Kapellen, 2: 117 [1778]. TL — "Surinam". Type may be lost or in Leiden [see **Note 7**].

= *larra* (Fabricius) *PAPILIO*. Ent. Syst., Suppl.: 428 (1798). TL — "America". HT in Kiel.

= *cnidida* (Godart) *COLIAS*. Enc. Meth., 9: 93-94 [1819]. TL — "Brasil and Guyane". ST's may be in MNHN.

= ♀ f. "albante" F. M. Brown. American Mus. Novitates, (368): 13 (1929). TL — Tegucigalpa, Honduras. HT in AMNH.

4. **agarithe** (Boisduval) *CALLIDRYAS*. Hist. Nat. Ins., Spec. gén. Lépid., 1: 623 (1836). TL — "Mexico". Types may be in MNHN and USNM [see **Note 314**].

a. **a. agarithe** (Boisduval) *CALLIDRYAS*. Hist. Nat. Ins., Spec. gén. Lépid., 1: 623 (1836). TL — "Mexico". Types may be in MNHN and USNM [see **Note 315**]. **374a.**

= f. "albarithe" F. M. Brown. American Mus. Novitates, (368): 16 (1929). TL — Jalapa, Mexico. HT in AMNH [see **Note 315**].

b. **a. maxima** (Neumoegen) *CATOPSILIA*. Canadian Ent., 23: 122 (1891). TL — "Florida". HT in USNM. **374b.**

= *floridensis* (Röber) *CATOPSILIA*. *in* Seitz, Grossschmett. Erde, 5: 87 (1909). TL — "Florida". HT was in Dresden (destroyed in World War II?).

5. **neocypris** (Hübner) *COLIAS*. Samml. exot. Schmett., 2: pl. 136, figs. 1-2 [1823]. TL not stated. Type probably lost [see **Notes 9** and **316**]. **375.**

= ‡*cipris* (Fabricius) *PAPILIO*. Ent. Syst., 3(1): 212 (1793). TL not stated. Type (a Drury specimen) apparently lost [see **Notes 99** and **317**]. Preoccupied by *cipris* Cramer, Uitl. Kapellen, 2: 5 [1777].

= *bracteolata* (Butler) *CALLIDRYAS*. Proc. Zool. Soc. London, [1865]: 458 (1865). TL — "Brasil". HT in BM.

= *irrigata* (Butler) *CALLIDRYAS*. Trans. Ent. Soc. London, [1870]: 9-10 (1870). TL — "Ipaunema?, Brasil". ST's in BM.

Genus CXII: **Aphrissa** Bütler

Lepid. Exot.: 155 (1873). Type-species by original designation *Papilio statira* Cramer, Uitl. Kapellen, 2: 35 [1777].

*1. **statira** (Cramer) *PAPILIO*. Uitl. Kapellen, 2: 35 [1777]. TL — "coasts of Cormandel and Tranquebar", in error, more likely "Surinam". Type *(ex* colln. Stoll) probably lost [see **Note 15**].

a. **s. jada** (Butler) *CATOPSILIA*. Trans. Ent. Soc. London, [1870]: 11 (1870). TL — "Guatemala (central valleys)". ST's in BM. **376a.**

= *butleri* Scudder. Proc. Boston Soc. Nat. Hist., 17: 208 (1874). TL — "Tehuantepec, [Mexico]". HT may be in MCZ.

= ♂ f. "schausi" (Avinoff) *CATOPSILIA*. Ann. Carnegie Mus., 16: 360 (1926). TL — "Guatemala". HT in CM.

= ♀ f. "stalba" F. M. Brown. American Mus. Novitates, (454): 12 (1931). TL — Truxillo dist., Honduras. HT in AMNH.

b. **s. floridensis** (Neumoegen) *CATOPSILIA*. Canadian Ent., 23: 122 (1891). TL — Indian R., Florida. HT in USNM. **376b.**

Genus CXIII: **Kricogonia** Reakirt

Proc. Ent. Soc. Philadelphia, 2: 355 (1863). Type-speices by original designation *Colias lyside* Godart, Enc. Meth., 9: 98 [1819] [see **Notes 318** and **319**].

1. **lyside** (Godart) *COLIAS*. Enc. Meth., 9: 98 [1819]. TL not stated, but **377.**

designated as "Haiti" by Riley, Field Guide Butts. W. Indies: 131 (1975). HT in MNHN [see **Note 320**].

= *terissa* (Lucas) *RHODOCERA*. Rev. Zool., [1852]: 429 (1852). TL — "Antilles". HT may be in MNHN.

= *fantasia* Butler. Trans. Ent. Soc. London, [1871]: 170 (1871). TL — "Nicaragua". HT in BM.

= ♀ f. "lanice" Lintner. Papilio, 4: 138 (1884). TL — "Rio Grande, Texas". ST in New York State Mus., Albany.

= f. "unicolor" Godman and Salvin. Biol. Cent.-Americana, 2: 151 (1889). TL — San Geronimo, Guatemala and "Haiti". ST's in BM.

= f. "xanthophila" Röber. *in* Seitz, Grossschmett. Erde, 5: 89 (1909). TL — "Guatemala". HT was in Dresden (destroyed in World War II?).

Genus CXIV: **Eurema** Hübner

Verz. bekannt. Schmett., (7): 96 [1819]. Type-species by designation of Butler, Cist. Ent., 1: 35 (1870), *Papilio delia* Cramer, Uitl. Kapellen, 3: 144 [1780], not Denis and Schiffermüller, Ankünd. syst. Werkes Schmett. Wiener Gegend: 179 [1775] *(=Pieris daira* Godart, Enc. Meth., 9: 137 [1819], or *Eurema demoditas* Hübner, Verz. bekannt. Schmett., (7): 96 [1819]) [see **Note 321**].

1. **daira** (Godart) *PIERIS*. Enc. Meth., 9: 137 [1819]. TL — "Virginia". HT may be in BM *(ex* van Lennep colln.). Proposed to replace *Papilio delia* Cramer, *q. v.;* preoccupied.

a. **d. daira** (Godart) *PIERIS*. Enc. Meth., 9: 137 [1819]. TL — "Virginia". HT may be in BM *(ex* van Lennep colln.). Proposed to replace *Papilio delia* Cramer, *q. v.;* preoccupied [see **Notes 322** and **323**]. **378a.**

= ‡*delia* (Cramer) *PAPILIO*. Uitl. Kapellen, 3: 144 [1780]. TL — "Virginia". HT may be in BM *(ex* van Lennep colln.). Preoccupied by *P. delia* Denis and Schiffermüller, Ankünd. syst. Werkes Schmett. Wiener Gegend: 179 [1775].

= *demoditas* Hübner. Verz. bekannt. Schmett., (7): 96 [1819]. TL — "Virginia". HT may be in BM (van Lennep colln.). Proposed to replace *Papilio delia* Cramer, q. v.; preoccupied.

= summer f. "jucunda" (Boisduval and Leconte) *XANTHIDIA*. Hist. Lepid. Amerique sept.: 52 [1829]. TL — "New York, Virginia, Louisiana, etc." but more likely in Georgia. Type probably does not exist, name based on Abbot painting.

= ab. "fusca" L. Harris. Trans. Georgia Nat. Club, 1: 11 (1931). TL — Morningside area, Atlanta, Georgia. HT in Emory Univ. Mus.

b. **d. palmira** (Poey) *TERIAS*. Mem. Hist. Nat. Cuba, 1: 198 (1853). TL — "Cuba". HT in ANSP [see **Notes 324** and **325**]. **378b.**

= f. "albina" (Poey) *TERIAS*. Mem. Hist. Nat. Cuba, 1: 251 (1853). TL — "Cuba". HT in ANSP.

= f. "delioides" Haskins. Ent. News, 44: 121 (1933). TL — Auburndale, Florida. HT in USNM.

c. **d. lydia** (C. and R. Felder) *TERIAS*. Wiener Ent. Monats., 5: 87 (1861). TL — "Venezuela". HT may be in BM [see **Note 326**]. **378c.**

= *cepio* (Godman and Salvin) *TERIAS*. Biol. Cent.-Americana, Lepid. Rhop., 2: 169 (1889). TL — many Mexican localities. ST's in BM.

= ♀ f. "pallidula" Klots. Ent. Americana, (n. s.)9: 125 (1928). TL — Barrios, Guatemala. HT in AMNH [see **Note 327**].

2. **boisduvaliana** (C. and R. Felder) *TERIAS*. Reise . . . Freg. Novara, Lepid. Rhop., 2: 200 [1865]. TL — "Mexico". HT should be in MNHN or BM. **379.**

Proposed as replacement name for *mexicana* Boisduval, ♂ only [see **Note 328**].
= *ingrata* (R. Felder) *TERIAS*. Verh. zool.-bot. Ges. Wien, 19: 465 (1869). TL — Potrero, [Veracruz], Mexico. HT should be in BM.

3. **mexicana** (Boisduval) *TERIAS*. Hist. Nat. Ins., Spec. gén. Lépid., 1: 655 (1836). TL — "Mexico". HT should be in MNHN or BM. Name restricted to ♀ only by C. and R. Felder, Reise . . . Freg. Novara, Lepid. Rhop., 2: 200 [1865] [see **Note 329**]. 380.
= *damaris* (C. and R. Felder) *TERIAS*. Reise . . . Freg. Novara, Lepid. Rhop., 2: 198 [1865]. TL — "Mexico". HT should be in BM.
= *depuiseti* (Boisduval) *TERIAS*. Consid. Lepid. Guatemala: 11-12 (1870). TL — "Honduras to Mexico". ST's should be in MNHN or BM.
= winter brood "rosa" Whittaker and D. Stallings. Ent. News, 55: 87 (1944). TL — Caldwell, Kansas. HT in Stallings colln. (YPM?).
= ab. "biedermanni" Ehrmann. Bull. Brooklyn Ent. Soc., 20: 84 (1925). TL — "Arizona". HT in CM.
= ab. "recta" Klots. Ent. Americana, 9: 135 (1928). TL — "Texas". HT in AMNH.

*4. **salome** (C. and R. Felder) *TERIAS*. Wiener Ent. Monats., 5: 84 (1861). TL — "Ecuador". HT should be in BM.

a. **s. limoneus** (C. and R. Felder) *TERIAS*. Wiener Ent. Monats., 5: 84 (1861). TL — Caracas, Venezuela. HT should be in BM. Name based on a Moritz MS. name. 381a.
= *jamapa* (Reakirt) *TERIAS*. Proc. Acad. Nat. Sci. Philadelphia, [1866]: 239 (1866). TL — "Mexico, nr. Verz Cruz". Type not in FMNH, but might be in CM.

Genus CXV: **Pyrisitia** Butler

Cist. Ent., 1: 35, 44 (1870). Type-species by original designation *Papilio proterpia* Fabricius, Syst. Ent.: 478 (1775). [see **Note 330**].

1. **proterpia** (Fabricius) *PAPILIO*. Syst. Ent.: 478 (1775). TL — "Jamaica". HT in Univ. Mus., Glasgow. 382.
= *longicauda* (H. Bates) *TERIAS*. Ent. Mo. Mag., 1: 32 (1864). TL — Polochic valley, Guatemala. HT in BM.
= f. "gundlachia" (Poey) *TERIAS*. Mem. Hist. Nat. Cuba: 246 (1851). TL — "Cuba". HT in ANSP.

2. **lisa** (Boisduval and Leconte) *XANTHIDIA*. Hist. Lépid. Amerique sept.: 53-55 (1829). TL — "United States". HT apparently in USNM [see **Notes 22** and **331**].

a. **l. lisa** (Boisduval and Leconte) *XANTHIDIA*. Hist. Lépid. Amerique sept.: 53-55 (1829). TL — "United States". HT apparently in USNM [see **Notes 22** and **331**]. 383a.
= *clappi* (Maynard) *TERIAS*. Man. N. American Butts.: 216 (1891). TL — Enterprise, Florida. Loc. of type not known (MCZ?).
= ♀ f. "alba" (Strecker) *TERIAS*. Syn. Cat. N. American Macrolepid.: 85 (1878). TL not stated. No type established.
= summer f. "immaculata" Whittaker and D. Stallings. Ent. News, 55: 88 (1944). TL — Caldwell, Kansas. HT in Stallings colln. (YPM?).

*3. **chamberlaini** (Butler) *TERIAS*. Ann. Mag. Nat. Hist., (7)1: 295 (1897). TL — "Andros I., Bahamas". HT in BM. 384.

4. **nise** (Cramer) *PAPILIO*. Uitl. Kapellen, 1: 31 [1775]. TL — "Jamaica", restricted to rd. nr. Millbank, Portland, Jamaica by Klots and Heineman, Proc. R. Ent. Soc. London, (B)26: 212-213 (1957). NT in Rijksmus. Nat. Hist., Leiden, designated by Klots and Heineman, Proc. R. Ent. Soc. London, (B)26: 212-213 (1957).

a. **n. nise** (Cramer) *PAPILIO.* Uitl. Kapellen, 1: 31 [1775]. TL — "Jamaica", restricted to rd. nr. Millbank, Portland, Jamaica by Klots and Heineman, Proc. R. Ent. Soc. London, (B)26: 212-213 (1957). NT in Rijksmus. Nat. Hist., Leiden, designated by Klots and Heineman, Proc. R. Ent. Soc. London, (B)26: 212-213 (1957). 385a.

= *neda* (Godart) *PIERIS.* Enc. Meth., 9: 135-136 [1819]. TL — "Jamaica and Brasil", but restricted by implication to rd. nr. Millbank, Portland, Jamaica by Klots and Heineman, Proc. R. Ent. Soc. London, (B)26: 212-213 (1957). NT in Rijksmus. Nat. Hist., Leiden, designated by implication by Klots and Heineman, Proc. R. Ent. Soc. London, (B)26: 212-213 (1957). Name proposed to replace *nise (q. v.),* wrongly believed to be preoccupied.

b. **n. nelphe** (R. Felder) *TERIAS.* Verh. zool.-bot. Ges. Wien, 19: 466 (1869). TL — Potrero, [Veracruz], Mexico. HT should be in BM [see Note 332]. 385b.

= *linda* (W. H. Edwards) *TERIAS.* Papilio, 4: 53 (1884). TL — "Mexico", restricted to vic. Nogales, Sonora, Mexico by F. M. Brown, Trans. American Ent. Soc., 99: 49 (1973). LT in USNM, designated by F. M. Brown, Trans. American Ent. Soc., 99: 50 (1973).

*5. **messalina** (Fabricius) *PAPILIO.* Mant. Ins., 2: 22 (1767). TL — "Indiis", set as "Cuba" by Klots, Ent. Americana, (n. s.)9: 131 (1928). Type apparently lost.

= ?*bulaea* (Boisduval) *TERIAS.* Hist. Nat. Ins., Spec. gén. Lépid., 1: 680 (1836). TL — "Senegal", "evidently incorrect" according to Klots, Ent. Americana, (n. s.)9: 131 (1928) who placed it with *messalina.* Type may be in MNHN *(ex* Roger colln.).

= *citrina* (Poey) *TERIAS.* Mem. Hist. Nat. Cuba: pl. 13, figs. 4-7 (1851). TL — "Cuba". Type may still be in Havana, Cuba.

a. **m. blakei** (Maynard) *TERIAS.* Man. N. American Butts.: 216 (1891). TL — "Bahamas". HT in MCZ. 386a.

*6. **dina** (Poey) *TERIAS.* Cent. Lepid. Cuba, decade 2: [12] (1832). TL — "Cuba". HT in ANSP.

a. **d. westwoodi** (Boisduval) *TERIAS.* Hist. Nat. Ins., Spec. gén. Lépid., 1: 666 (1836). TL — "Mexico". HT may be in BM or MNHN. 387a.

= *gnathene* (Boisduval) *TERIAS.* Hist. Nat. Ins., Spec. gen. Lepid., 1: 680 (1836). TL — "Yucatan, Mexico". HT may be in MNHN (coll. Roger) or BM.

b. **d. helios** M. Bates. Occ. Pap. Boston Soc. Nat. Hist., 8: 133 (1934). TL — Nassau, Bahamas. HT in MCZ. 387b.

Genus CXVI: **Abaeis** Hübner

Verz. bekannt. Schmett., (7): 96 [1819]. Type-species by designation of Butler, Cist. Ent., 1: 35 (1870) *Papilio nicippe* Cramer, Uitl. Kapellen, 3: 31 [1779].

= *Xanthidia* Boisduval and Leconte, Hist. Lépid. Amerique sept.: 48-49 (1829). Type-species by designation of Scudder, Proc. American Acad. Arts Sci., 10: 288 (1875) *Papilio nicippe* Cramer, Uitl. Kapellen, 3: 31 [1779].

1. **nicippe** (Cramer) *PAPILIO.* Uitl. Kapellen, 3: 31 [1779]. TL — "Virginia". HT may be in BM, Leiden or lost [see Note 7]. 388.

= summer f. "pallens" Whittaker and D. Stallings. Ent. News, 55: 88 (1944). TL — Caldwell, Kansas. HT in Stallings colln. (YPM?).

= ♀ ab. "flava" (Strecker) *TERIAS.* Syn. Cat. N. American Macrolepid.: 84 (1878). TL — [Berks Co., Pennsylvania]. HT in FMNH.

= ♀ ab. "dammersi" Gunder. Bull. S. California Acad. Sci., 29: 52 (1930). TL — San Bernardino, California. HT in AMNH.

= ab. "callae" Field. J. Ent. Zool. (Pomona Coll.), 28: 20-21 (1936). TL — Donna, Texas. HT in USNM.

Genus CXVII: **Nathalis** Boisduval

Hist. Nat. Ins., Spec. gén. Lépid., 1: 589 (1836). Type-species by monotypy *Nathalis iole* Boisduval, Hist. Nat. Ins., Spec. gén. Lépid., 1: 589-590 (1836).

1. **iole** Boisduval. Hist. Nat. Ins., Spec. gén. Lépid., 1: 589-590 (1836). TL — "Mexico". HT may be in MNHN. **389.**
   - = ♀ f. "felicia" Poey. Mem. Hist. Nat. Cuba, 1: 443 (1853). TL — "Cuba". Type probably in Havana, Cuba.
   - = ♀ f. "luteolus" Reakirt. Proc. Ent. Soc. Philadelphia, 2: 350-351 (1863). TL — "Honduras". HT in FMNH.
   - = ♀ f. "irene" Fitch. Ann. Rept. New York St. Agric. Soc., [1856]: 485-486 (1856). TL — "valley of the Mississippi". Loc. of type not known (New York St. Mus., Albany?).
   - = summer f. "immaculata" Field. J. Ent. Zool. (Pomona Coll.), 28: 20 (1936). TL — Lawrence, Kansas. HT in USNM.
   - = ♂ f. "albida" Avinoff. Ann. Carnegie Mus., 28: 309-310 (1941). TL — Low River, Trelawny, Jamaica. ST's in CM.
   - = winter f. "viridis" Whittaker and D. Stallings. Ent. News, 55: 92 (1944). TL — Caldwell, Kansas. HT in Stallings colln. (YPM?).
   - = summer f. "alayoi" de la Torre C. Mem. Soc. Cubana Hist. Nat., 20: 89-90 (1951). TL — Castello Pinas Altas, Matanzas, Cuba. HT in de la Torre C. colln.
     - = ♀ ab. "pallida" Field. J. Ent. Zool. (Pomona Coll.), 28: 20 (1936). TL — Lawrence, Kansas. HT in USNM.

Subfamily **Dismorphiinae** Godman and Salvin

Biol. Cent.-Americana, Lepid. Rhop., 2: 173-174 (1889) (as "Dismorphina") [see **Note 333**].

Genus CXVIII: **Enantia** Hübner

Verz. bekannt. Schmett., (7): 96 [1819]. Type-species by designation of Scudder, Proc. American Acad. Arts Sci., 10: 162 (1875) *Papilio licinia* Cramer, Uitl. Kapellen, 2: 90 [1777] [see **Note 334**].

- = *Licinia* Swainson, Zool. Illustr., (1)1: pl. 15 (1820). Type-species by original designation *Papilio melite* Johansson, Amoen. Acad., 6: 403 (1763).

1. **melite** (Johansson) *PAPILIO.* Amoen. Acad., 6: 403 (1763). TL — "Amer. merid." Type may be in Uppsala [see **Note 335**]. **390.**

Family **LYCAENIDAE** Leach

in D. Brewster, Edinburgh Ency., 9: 129 (1815) [see **Note 336**].

Subfamily **Miletinae** Corbet

Trans. Roy. Ent. Soc. London, 89: 63 (1939), valid under Art. 40a of Internatl. Code Zool. Nomencl.

= Gerydinae Doherty, J. Asiatic Soc. Bengal, 55: 110 (1886) [*Gerydus* Boisduval = *Miletus* Hübner].

Tribe **Spalgini** Toxopeus

Tijdschr. Ent., 72: 218 (1929) [see **Notes 1** and **337**].

Genus CXVII: **Feniseca** Grote

Trans. American Ent. Soc., 2: 308 (1869). Type-species by original designation *Hesperia tarquinius* Fabricius, Ent. Syst., 3: 319 (1793).

1. **tarquinius** (Fabricius) *HESPERIA*. Ent. Syst., 3: 319 (1793). TL — "in Indiis". Type probably lost.
   a. **t. tarquinius** (Fabricius) *HESPERIA*. Ent. Syst., 3: 319 (1793). TL — "in Indiis". Type probably lost. **391a.**
      = *crataegi* (Boisduval and Leconte) *POLYOMMATUS*. Hist. Lepid. Amerique sept.: 128-129 [1883]. TL — "Georgia". Type probably never existed; name based on Abbot drawing [see **Note 22**].
      = *porsenna* (Scudder) *POLYOMMATUS*. Proc. Essex Inst., 3: 163-164 (1864). TL — "New England". Type(s) may be in MCZ.
         = ab. "suffusa" Dean. Lepidoptera, 2: 60 (1918). TL — Meramec Highlands, Missouri. Loc. of type not known.
   b. **t. novascotiae** McDunnough. Canadian Ent., 67: 211 (1935). TL — S. Milford, Nova Scotia. HT in CNC. **391b.**

Subfamily **Lycaeninae** Leach

in D. Brewster, Edinburgh Ency., 9: 129 (1815) [see **Notes 1** and **336**].

Genus CXVIII: **Tharsalea** Scudder

Bull. Buffalo Soc. Nat. Sci., 3: 125 (1876). Type-species by original designation *Polyommatus arota* Boisduval, Ann. Soc. Ent. France, (2)10: 293 (1852).

1. **arota** (Boisduval) *POLYOMMATUS* Ann. Soc. Ent. France, (2)10: 293 (1852). TL — "California", restricted to Juba Mountains by W. P. Comstock and Huntington, J. New York Ent. Soc., 67: 79 (1959). HT probably in USNM [see **Note 22**].
   a. **a. arota** (Boisduval) POLYOMMATUS. Ann. Soc. Ent. France, (2)10: 293 (1852). TL — "California", restricted to Juba Mountains by W. P. Comstock and Huntington, J. New York Ent. Soc., 67: 79 (1959). HT probably in USNM [see **Note 22**]. **392a.**
   b. **a. virginiensis** (W. H. Edwards) *CHRYSOPHANUS*. Trans. American Ent. Soc., 3: 21 (1870). TL — Virginia City, Nevada. NT in AMNH, designated by F. M. Brown, Trans. American Ent. Soc., 95: 164 (1969). **392b.**
   c. **a. nubila** J. A. Comstock. Bull. S. California Acad. Sci., 25: 34 (1926). TL — Griffith Park, Los Angeles, California. HT in LACM. **392c.**
   d. **a. schellbachi** Tilden. Bull. S. California Acad. Sci., 54: 72 (1955). TL — Bright Angel Trail, Grand Canyon, Coconino Co., Arizona. HT in USNM. **392d.**

Genus CXIX: **Lycaena** Fabricius

in Illiger, Mag. f. Insektenk., 6: 285 (1807). Type-species by designation of Curtis, British Ent., 5: pl. 12 (1828), *Papilio phlaeas* Linnaeus. Faun. Svecica,

ed. 2: 285 (1761) [see **Notes 338** and **339**].

= ‡*Lycia* Sodovskii, Bull. Soc. Imp. Nat. Moscou, [1837] (6): 81 (1837). Type-species, as replacement name, *Papilio phlaeas* Linnaeus, Faun. Svecica, ed. 2: 285 (1761). Unjustified emendation of *Lycaena* Fabricius. Preoccupied by *Lycia* Hübner, Verz. bekannt. Schmett., (20): 319 [1825].

= ‡*Migonitis* Sodovskii, Bull. Soc. Imp. Nat. Moscou, [1837] (6): 82 (1837). Type-species, as replacement name, *Papilio phlaeas* Linnaeus, Faun. Svecica, ed. 2: 285 (1761). Preoccupied by *Migonitis* Rafinesque, Analyse Nature: 147 (1815) and *Migonitis* Hübner, Verz. bekannt. Schmett., (1): 12 [1816].

= *Rumicia* Tutt, Ent. Rec., 18: 131 (1906). Type-species by original designation *Papilio phlaeas* Linnaeus, Fauna Svecica, ed. 2: 285 (1761).

*1. **phlaeas** (Linnaeus) *PAPILIO*. Fauna Svecica, ed. 2: 285 (1761). TL — "Sweden". Loc. of type not known [see **Note 75**].

a. **p. americana** Harris. Rept. Ins. Inj. Veg. (Flint's ed): 273 (1862). TL — "Massachusetts". Type may be in MCZ or lost [see **Notes 340, 341** and **342**]. **393a.**

= ab. "fasciata" (Strecker) *CHRYSOPHANUS*. Butt. Moths N. America: 101 (1878). TL — "Florida". HT in FMNH.

= ab. "fulliolus" (Hulst) *CHRYSOPHANUS*. Ent. Americana, 2: 182 (1886). TL not given. HT in USNM.

= ab. "neui" (Rummel) *HEODES*. Bull. Brooklyn Ent. Soc., 23: 268 (1928). TL — Hillsdale, New Jersey. HT in Newark Museum.

= ab. "obliterata" (Scudder) *HEODES*. Butt. E. U. S. and Canada, 2: 1001-1002 (1889). TL — "New England". Loc. of type not known, name based on Maynard figure [see **Note 343**].

= ab. "caeca" (Reiff) *HEODES*. Ent. News, 24: 306 (1913). TL — Blue Hills, Massachusetts. Loc. of type not known.

= ab. "adrienne" (Maynard) *CHRYSOPHANUS*. Man. N. American Butts.: 153 (1891). TL — "eastern Massachusetts". Loc. of type not known.

= ab. "octomaculata" (Dean) *CHRYSOPHANUS*. Lepidoptera, 2: 60 (1918). TL — Meramec Highlands, Missouri. Loc. of type not known.

= ab. "banksi" (Watson and W. P. Comstock) *HEODES*. Bull. American Mus. Nat. Hist., 42: 454 (1920). TL — Lexington, Massachusetts. HT in MCZ.

= ab. "fulvus" (Rummel) *HEODES*. Bull. Brooklyn Ent. Soc., 23: 268 (1928). TL — Green Village, New Jersey. HT may be in Newark Museum [see **Note 344**].

b. **p. feildeni** (M'Lachlan) *CHRYSOPHANUS*. J. Linn. Soc. (London), 14: 111 (1878). TL — Grant Land, Northwest Territories. Loc. of type not known (Edinburgh?) [see **Note 345**]. **393b.**

c. **p. arethusa** (Wolley-Dod) *CHRYSOPHANUS*. Canadian Ent., 39: 169 (1907). TL — nr. Calgary, Alberta. HT in USNM. **393c.**

d. **p. arctodon** Ferris. Bull. Allyn Mus., (18): 4-5 (1974). TL — E side Beartooth Pass, Carbon Co., Montana. HT in AME. **393d.**

e. **p. hypophlaeas** (Boisduval) *POLYOMMATUS*. Ann. Soc. Ent. France, (2)10: 291 (1852). TL — "northern California". HT may be in USNM [see **Note 22**]. **393e.**

2. **cupreus** (W. H. Edwards) *CHRYSOPHANUS*. Trans. American Soc., 3: 20-21 (1870). TL — "Oregon". LT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 95: 176 (1969).

a. **c. cupreus** (W. H. Edwards) *CHRYSOPHANUS*. Trans. American Ent. Soc., 3: 20-21 (1870). TL — "Oregon". LT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 95: 176 (1969). **394a.**

= ab. "maculinita" (Gunder) *HEODES*. Ent. News, 37: 8 (1926). TL — Mammoth, Mono Co., California. HT in AMNH.

b. **c. snowi** (W. H. Edwards) *CHRYSOPHANUS*. Trans. Kansas Acad. Sci., 7: 69 [1881] ("1879-1880"). TL — Gray's Peak, Summit and Clear Creek Cos., Colorado. LT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 95: 178 (1969). **394b.**

= ab. "mcdunnoughi" Gunder. Canadian Ent., 59: 284 (1927). TL — Laggan, Alberta. HT in CNC [see **Note 346**].

c. **c. henryae** (Cadbury) *CHRYSOPHANUS*. Proc. Acad. Nat. Sci. Philadelphia, 89: 409 (1937). TL — Caribou Pass, British Columbia. HT in CM. **394c.**

Genus CXX: **Gaeides** Scudder

Bull. Buffalo Soc. Nat. Sci., 3: 126 (1876). Type-species by original designation *Chrysophanus dione* Scudder. Trans. Chicago Acad. Sci., 1: 330 (1869) (=*Polyommatus xanthoides* Boisduval, Ann. Soc. Ent. France, (2)10: 292, 1852, subspecies).

1. **xanthoides** (Boisduval) *POLYOMMATUS*. Ann. Soc. Ent. France (2)10: 292 (1852). TL — "mountains of California". HT may be in USNM [see **Note 22**].

a. **x. xanthoides** (Boisduval) *POLYOMMATUS*. Ann. Soc. Ent. France, (2)10: 292 (1852). TL — "mountains of California". HT may be in USNM [see **Note 22**]. **395a.**

f. "luctuosa" (Watson and W. P. Comstock) *HEODES*. Bull. American Mus. Nat. Hist., 42: 453 (1920). TL — Tehachapi, California. HT in AMNH.

b. **x. dione** (Scudder) *CHRYSOPHANUS*. Trans. Chicago Acad. Sci., 1: 330 (1869). TL — Denison and New Jefferson, Iowa. ST's may be in MCZ. **395b.**

= ab. "gibboni" (Gunder) *LYCAENA*. Canadian Ent., 59: 284 (1927). TL — Miniota, Manitoba. HT in CNC.

2. **editha** (Mead) *CHRYSOPHANUS*. Canadian Ent., 10: 198 (1878). TL — nr. Carnelian Bay, Lake Tahoe, California. ST's in FMNH.

a. **e. editha** (Mead) *CHRYSOPHANUS*. Canadian Ent., 10: 198 (1878). TL — nr. Carnelian Bay, Lake Tahoe, California. ST's in FMNH. **396a.**

= ab. "vanduzeei" (Gunder) *LYCAENA*. Ent. News, 38: 133 (1927). TL — Deer Park, Placer Co., California. HT in CAS.

b. **e. montana** (Field) *LYCAENA*. Ent. News, 47: 122 (1936). TL — Broadwater Co., Montana. HT in USNM. **396b.**

= ♀ f. "meadi" (Field) *LYCAENA*. J. Ent. Zool. (Pomona Coll.), 28: 25 (1936). TL — Teton Mtns., Wyoming. HT in USNM.

3. **gorgon** (Boisduval) *POLYOMMATUS*. Ann. Soc. Ent. France, (2)10: 292 (1852). TL — mountains of California. Type may be in USNM or lost [see **Note 22**]. **397.**

Genus CXXI: **Hyllolycaena** L. Miller and F. M. Brown

Bull. Allyn Mus., (51): 15-17 (1979). Type-species by original designation *Papilio hyllus* Cramer, Uitl. Kapellen, 1: 67-68 [1775].

1. **hyllus** (Cramer) *PAPILIO*. Uitl. Kapellen, 1: 67-68 [1775]. TL — "Smyrna", in error. Loc. of type not known [see **Note 7**]. **398.**

= *thoe* (Guérin-Méneville) *POLYOMMATUS*. Icon. Regne Anim.,: 81 [1831]. TL — "North America". Loc. of type not known (MNHN?) [see **Note 347**].

= ab. "womsbacheri" (Gunder) *LYCAENA*. Bull. S. California Acad. Sci., 26: 53 (1927). TL not given. HT in USNM.

= ab. "wyatti" (Gunder) *LYCAENA*. Canadian Ent., 59: 285 (1927). TL — "Colorado?". HT in FMNH.

Genus CXXII: **Chalceria** Scudder

Bull. Buffalo Soc. Nat. Sci., 3: 125 (1876). Type-species by original designation *Chrysophanus rubidus* Behr, Proc. Ent. Soc. Philadelphia, 6: 208 (1866).

1. **rubidus** (Behr) *CHRYSOPHANUS.* Proc. Ent. Soc. Philadelphia, 6: 208 (1866). TL — "interior of Oregon", suggested as from Klamath Basin by K. Johnson and Balogh, Bull. Allyn Mus., (43): 20-21 (1977). NT in CM, designated by K. Johnson and Balogh, Bull. Allyn Mus., (43): 20 (1977).
   - a. **r. rubidus** (Behr) *CHRYSOPHANUS.* Proc. Ent. Soc. Philadelphia, 6: 208 (1866). TL — "interior of Oregon", suggested as from Klamath Basin by K. Johnson and Balogh, Bull. Allyn Mus., (43): 20-21 (1977). NT in CM, designated by K. Johnson and Balogh, Bull. Allyn Mus., (43): 20 (1977). **399a.**
   - b. **r. duofacies** (K. Johnson and Balogh) *LYCAENA.* Bull. Allyn Mus., (43): 21-25 (1977). TL — Bogus Basin, nr. Boise, Boise Co., Idaho. HT in AME. **399b.**
   - c. **r. perkinsorum** (K. Johnson and Balogh) *LYCAENA.* Bull. Allyn Mus., (43): 25-28 (1977). TL — 1 mi. E of The Dalles, Wasco Co., Oregon. HT in AME. **399c.**
   - d. **r. longi** (K. Johnson and Balogh) *LYCAENA.* Bull. Allyn Mus., (43): 28-32 (1977). TL — canyon region N of Harrison, Sioux Co., Nebraska. HT in AME. **399d.**
   - e. **r. sirius** (W. H. Edwards) *CHRYSOPHANUS.* Trans. American Ent. Soc., 3: 270 (1871). TL — "Colorado", restricted to nr. Twin Lakes, Lake Co., Colorado, by F. M. Brown, Trans. American Ent. Soc., 95: 166-167 (1969). LT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 95: 168-169 (1969). **399e.**
   - f. **r. monachensis** (K. Johnson and Balogh) *LYCAENA.* Bull. Allyn Mus., (43): 38-40 (1977). TL — Monache Meadows, Tulare Co., California. HT in AMNH. **399f.**
2. **ferrisi** (K. Johnson and Balogh) *LYCAENA.* Bull. Allyn Mus., (43): 40-42 (1977). TL — Apache Ditch Camp, 13 mi. E of McNary, Apache Co., Arizona. HT in AME. **400.**
3. **heteronea** (Boisduval) *LYCAENA.* Ann. Soc. Ent. France, (2)10: 298 (1852). TL — mountains of California. HT apparently in USNM [see Note 22].
   - a. **h. heteronea** (Boisduval) *LYCAENA.* Ann. Soc. Ent. France, (2)10: 298 (1852). TL — mountains of California. HT apparenty in USNM [see Note 22]. **401a.**
     - = *gravenotata* (Klots) *LYCAENA.* Bull. Brooklyn Ent. Soc., 25: 163 (1930). TL — Plainview, Jefferson Co., Colorado. HT in AMNH.
     - = *klotsi* (Field) *LYCAENA.* Ent. News, 47: 123 (1936). TL — Broadwater Co., Montana. HT in USNM.
       - = ab. "coloradensis" (Gunder) *HEODES.* Ent. News, 36: 194 (1925). TL — Plain View, Colorado. HT in AMNH.
   - b. **h. clara** (Hy. Edwards) *LYCAENA.* Pac. Coast. Lepid., (26): 1 (1880). TL — "Colorado and the mountains of California", but all ST's are from Tehachapi, California. ST's in AMNH. **401b.**

Genus CXXIII: **Epidemia** Scudder

Bull. Buffalo Soc. Nat. Sci., 3: 127 (1876). Type-species by original designation *Polyommatus epixanthe* Boisduval and Leconte, Hist. Lepid. Amerique sept., 1: 127 [1833].

1. **epixanthe** (Boisduval and Leconte) *POLYOMMATUS.* Hist. Lepid. Amerique sept., 1: 127 [1833]. TL — "New Harmony, Indiana", but restricted to New Jersey by Rawson, J. New York Ent. Soc., 56: 58 (1948). LT in USNM, designated by Rawson, J. New York Ent. Soc., 56: 58-59 (1948) [see Note 22].
   - a. **e. epixanthe** (Boisduval and Leconte) *POLYOMMATUS.* Hist. Lepid. Amerique sept., 1: 127. TL — "New Harmony, Indiana", but restricted to New Jersey by Rawson, J. New York Ent. Soc., 56: 58 (1948). LT in USNM, designated by Rawson, J. New York Ent. Soc., 56: 58-59 (1948) [see Notes 22 **402a.**

and 348].

= *hypoxanthe* (W. F. Kirby) *CHRYSOPHANUS*. Man. European Butts.: 91 (1862). TL — "Polish Ukraine". HT in BM.

b. **e. phaedrus** (G. C. Hall) *HEODES*. J. New York Ent. Soc., 32: 111 (1924). TL — Dublin Shore, Lunenburg Co., Nova Scotia. HT in AMNH. **402b.**

c. **e. michiganensis** (Rawson) *LYCAENA*. J. New York Ent. Soc., 56: 59-61 (1948). TL — Proud Lake, Oakland Co., Michigan. HT in USNM. **402c.**

2. **dorcas** (W. Kirby) *LYCAENA*. *in* J. Richardson, Fauna Bor.-Americana, (4): 299 (1837). TL — "Lat. 54°", restricted to The Pas, Manitoba by Ferris, Bull. Allyn Mus., (45): 22-23 (1977). NT in CNC, designated by Ferris, Bull. Allyn Mus., (45): 23 (1977).

a. **d. dorcas** (W. Kirby) *LYCAENA*. *in* J. Richardson, Fauna Bor.-Americana, (4): 299 (1837). TL — "Lat. 54°", restricted to The Pas, Manitoba by Ferris, Bull. Allyn Mus., (45): 22-23 (1977). NT in CNC, designated by Ferris, Bull. Allyn Mus., (45): 23 (1977). **403a.**

= *anthelle* (Doubleday) *POLYOMMATUS*. List Lepid. Ins. British Mus., (2): 55 (1847). TL not stated. Loc. of type, if it exists, not known (BM?).

b. **d. castro** (Reakirt) *POLYOMMATUS*. Proc. Ent. Soc. Philadelphia, 6: 148 (1866). TL — "Rocky Mountains, Colorado Terr." LT in FMNH, designated by Ferris, Bull. Allyn Mus., (45): 25 (1977). **403b.**

c. **d. florus** (W. H. Edwards) *CHRYSOPHANUS*. Canadian Ent., 15: 210-211 (1883). TL — "Red Deer River", restricted to Didsbury, Alberta by F. M. Brown, Trans. American Ent. Soc., 95: 172-173 (1969). LT in CNC, designated by F. M. Brown, Trans. American Ent. Soc., 95: 173-174 (1969). **403c.**

= ♀f. "hulbirti" (Field) LYCAENA, J. Ent. Zool. (Pomona Coll.), 28: 25 (1936). TL — Broadwater Co., Montana. HT in USNM.

= ‡♀ f. "sternitzkyi" (Field) *LYCAENA*. J. Ent. Zool. (Pomona Coll.), 28: 26 (1936). TL — Broadwater Co., Montana. HT in USNM. Preoccupied by *Lycaena thoe* tr. f. "sternitzkyi" Gunder, Canadian Ent., 59: 285 (1927).

d. **d. dospassosi** (McDunnough) *LYCAENA*. Canadian Ent., 72: 130 (1940). TL — Bathurst, New Brunswick. HT in CNC. **403d.**

e. **d. claytoni** (Brower) *LYCAENA*. Bull. Brooklyn Ent. Soc., 35: 138 (1940). TL — Springfield, Penobscot Co., Maine. HT in USNM. **403e.**

f. **d. megaloceras** Ferris. Bull. Allyn Mus., (45): 31-33 (1977). TL — 5-Spring Creek, Big Horn Co., Wyoming. HT in AME. **403f.**

g. **d. arcticus** Ferris. Bull. Allyn Mus., (45): 33-35 (1977). TL — Mayo Lake Road, Yukon Territory. HT in AME. **403g.**

3. **helloides** (Boisduval) *POLYOMMATUS*. Ann. Soc. Ent. France, (2)10: 291 (1852). TL — "San Francisco, California". HT in USNM [see **Notes 22** and **349**]. **404.**

= ab. "williamsi" (Gunder) *LYCAENA*. Canadian Ent., 59: 285 (1927). TL — Hall Valley, Park Co., Colorado. HT in CM.

= ab. "sternitzkyi" (Gunder) *LYCAENA*. Canadian Ent., 59: 285 (1927). TL — Petaluma, California. HT in AMNH.

= ab. "gunderi" (Rudkin) *LYCAENA*. Ent. News, 44: 97 (1933). TL — Bouquet Canyon, Los Angeles Co., California. HT in CAS.

4. **nivalis** (Boisduval) *POLYOMMATUS*. Ann. Soc. Ent. Belgique, 12: 44 (1869). TL — "California". HT apparently in USNM [see **Note 22**].

a. **n. nivalis** (Boisduval) *POLYOMMATUS*. Ann. Soc. Ent. Belgique, 12: 44 (1869). TL — "California". HT apparently in USNM [see **Note 22**]. **405a.**

= *ianthe* (W. H. Edwards) *CHRYSOPHANUS*. Trans. American Ent. Soc., 3: 211-212 (1871). TL — "Nevada", restricted to Lake Tahoe by F. M. Brown, Trans. American Ent. Soc., 95: 169 (1969). LT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 95: 171 (1969).

b. **n. browni** (dos Passos) *LYCAENA*. Canadian Ent., 70: 45 (1938). TL — **405b.**

Snowslide Canyon, 8 mi. from Montpelier, Idaho. HT in AMNH.

5. **mariposa** (Reakirt) *POLYOMMATUS*. Proc. Ent. Soc. Philadelphia, 6: 149 (1866). TL — "California". ST's in FMNH.
   a. **m. mariposa** (Reakirt) *POLYOMMATUS*. Proc. Ent. Soc. Philadelphia, 6: 149 (1866). TL — "California". ST's in FMNH. **406a.**
      = *zeroe* (Boisduval) *POLYOMMATUS*. Ann. Soc. Ent. Belgique, 12: 45 (1869). TL — "Utah", but F. M. Brown, J. Lepid. Soc., 21: 273 (1967) suggests that these specimens actually came from the California-Nevada border. HT apparently in USNM [see **Note 22**].
   b. **m. charlottensis** (Holland) *CHRYSOPHANUS*. Ann. Carnegie Mus., 20: 6 (1930). TL — Queen Charlotte I., British Columbia. HT in CM. **406b.**
   c. **m. penroseae** (Field) *LYCAENA*. Pan-Pac. Ent., 14: 142 (1938). TL — Lake Eleanor, Yellowstone Natl. Park, Wyoming. HT in AME [see **Note 350**]. **406c.**

Genus CXXIV: **Hermelycaena** L. Miller and F. M. Brown

Bull. Allyn Mus., 51: 22-23 (1979). Type-species by original designation *Chrysophanus hermes* W. H. Edwards, Trans. American Ent. Soc., 3: 21 (1870).
= *Tharsalea* Scudder, Bull Buffalo Soc. Nat. Sci., 3: 125 (1876), *in partim*.

1. **hermes** (W. H. Edwards) *CHRYSOPHANUS*. Trans. American Ent. Soc., 3: 21 (1870). TL — "California", restricted to vic. San Diego, San Diego Co., California by F. M. Brown, Trans. American Ent. Soc., 95: 165 (1969). NT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 95: 166 (1969). **407.**
   = *delsud* (W. G. Wright) *CHRYSOPHANUS*. Butt. W. Coast: 215 (1906). TL — San Diego, California. HT was in CAS prior to earthquake [see **Note 351**].

Subfamily **Theclinae** Swainson

Zool. Illustr., 2: pl. 85 (1831) [see **Note 352**].

Tribe **Theclini** Swainson

Zool. Illustr., 2: pl. 85 (1831) [see **Note 352**].

Genus CXXV: **Hypaurotis** Scudder

Bull. Buffalo Soc. Nat Sci., 3: 112 (1876). Type-species by original designation *Thecla crysalus* W. H. Edwards, Trans. American Ent. Soc., 4: 344-345 (1873).

1. **crysalus** (W. H. Edwards) *THECLA*. Trans. American Ent. Soc., 4: 344-345 (1873). TL — "Lake Pass", amended to Palmer Lake, El Paso Co., Colorado by F. M. Brown, Trans. American Ent. Soc., 96: 22-23 (1970). LT in MCZ, designated by F. M. Brown, Trans. American Ent. Soc., 96: 23 (1970) [see **Note 353**].
   a. **c. crysalus** (W. H. Edwards) *THECLA*. Trans. American Ent. Soc., 4: 344-345 (1873). TL — "Lake Pass", amended to Palmer Lake, El Paso Co., Colorado by F. M. Brown, Trans. American Ent. Soc., 96: 22-23 (1970). LT in MCZ, designated by F. M. Brown, Trans. American Ent. Soc., 96: 23 [see **Note 353**]. **408a.**
   b. **c. citima** (Hy. Edwards) *THECLA*. Papilio, 1: 53 (1881). TL — Mt. Nebo, Utah. HT in AMNH. **408b.**

Genus CXXVI: **Habrodais** Scudder

Bull. Buffalo Soc. Nat. Sci., 3: 113 (1876). Type-species by original designation *Thecla grunus* Boisduval, Ann. Soc. Ent. France, (2)10: 289 (1852).

1. **grunus** (Boisduval) *THECLA*. Ann. Soc. Ent. France, (2)10: 289 (1852). TL — "California". HT apparently in USNM [see **Note 22**].
   a. **g. grunus** (Boisduval) *THECLA*. Ann. Soc. Ent. France, (2)10: 289 (1852). TL — "California". HT apparently in USNM [see **Note 22**]. **409a.**
   b. **g. lorquini** Field. Bull. S. California Acad. Sci., 37: 27 (1938). TL — Mt. Diablo, Contra Costa Co., California. HT in AME. **409b.**
      f. "chloris" Field. Bull. S. California Acad. Sci., 37: 28 (1938). TL — Mt. Diablo, Contra Costa Co., California. HT in AME.
   c. **g. herri** Field, Bull. S. California Acad. Sci., 37: 29 (1938). TL — McKenzie (Sister's) Pass, Oregon. ST's in USNM. **409c.**

Tribe **Eumaeini** Doubleday

List Spec. Lepid. Ins. Coll. British Mus., 2: 20 (1847).
= Strymonini Tutt, British Butts., 3: 330 (1907).

Genus CXXVII: **Eumaeus** Hübner

Verz. bekannt. Schmett., (5): 67 [1819]. Type-species by monotypy *Rusticus minijas* Hübner, Samml. Exot. Schmett., 1: pl. [97] [1809].
= *Eumenia* Godart, Encyc. Meth., 9: 826 [1824]. Type-species by monotypy *Eumenia toxea* Godart, Encyc. Meth., 9: 826 [1824] (=*Rusticus minijas* Hübner, Samml. Exot. Schmett., 1: pl. [97] [1809]).
= *Eumaea* Geyer, *in* J. Hübner, Samml. Exot. Schmett., 3: pl. [18] [1834]. Type-species by monotypy *Eumaea debora* Geyer, *in* J. Hübner, Samml. Exot. Schmett., 3: pl. [18] [1834] (=*Eumenia childrenae* G. R. Gray, Griffiths' Anim. Kingd., 15: 677, 1832).

*1. **atala** (Poey) *EUMENIA*. Cent. Lepid. Cuba: not paged (1832). TL — Havana, Cuba. Loc. of type not known.
   a. **a. florida** Röber. Ent. Mitteil., 15: 373 (1926). TL — prob. Miami, Dade Co. Type lost (?) **410a.**
      = *grayi* W. P. Comstock and Huntington. Ann. New York Acad. Sci., 45: 60 (1943). TL — Miami, Florida. HT in AMNH.

*2. **minijas** (Hübner) *RUSTICUS*. Samml. Exot. Schmett., 1: pl. [97] [1809]. TL not stated. Loc. of type not known [see **Notes 9** and **354**]. **411.**
= *toxea* (Godart) *EUMENIA*. Encyc. Meth., 9: 926 [1824]. TL — "interior of Central America". HT in MNHN.

Genus CXXVIII: **Atlides** Hübner

Verz. bekannt. Schmett., (5): 80 [1819]. Type-species by designation of Scudder, Proc. American Acad. Arts Sci., 10: 124 (1875) *Papilio halesus* Cramer, Uitl. Kapellen, 2: 3 [1777].

1. **halesus** (Cramer) *PAPILIO*. Uitl. Kapellen, 2: 3 [1777]. TL — "Virginia". Loc. of type not known [see **Note 7**].
   a. **h. halesus** (Cramer) *PAPILIO*. Uitl. Kapellen, 2: 3 [1777]. TL — "Virginia". Loc. of type not known [see **Note 7**]. **412a.**
      = *dolichos* Hübner. Zutr. z. Samml. exot. Schmett., 2: 9 [1823]. TL — "Georgia". Type may be lost [see **Notes 9** and **355**].
      = *juanita* (Scudder) *THECLA*. Proc. Boston Soc. Nat. Hist., 11: 435

(1868). TL — Pilatka, (now Palatka) Florida. Type may be in MCZ.

b. **h. estesi** Clench. Ent. News. 53: 219 (1940). TL — Riverside, California. HT in MCZ. **412b.**

= *corcorani* dos Passos. Mem. Lepid. Soc., (1): 52 (1964). Raising to subspecific rank of Gunder name (see Below) [see **Note 356**].

= ab. "corcorani" Gunder. Canadian Ent., 66: 131 (1934). TL — Riverside Co. California. HT in AMNH.

Genus CXXIX: **Chlorostrymon** Clench

in P. and A. Ehrlich, How Know Butts.: 189 (1961). Type-species by original designation *Thecla telea* Hewitson, Descr. New Lyc.: 4 (1868).

1. **maesites** (Herrich-Schäffer) *THECLA*. CorrespBl. zool. - min. Ver. Regensburg, 18: 165 (1864). TL — "Cuba". Loc. of type not known (prob. Havana, Cuba?) [see **Note 357**]. **413.**
2. **telea** (Hewitson) *THECLA*. Descr. New Lyc.: 4 (1868). TL — "Amazon". HT in BM. **414.**
3. **simaethis** (Drury) *PAPILIO*. Illustr. Nat. Hist., 1: 3 (1770). TL — "St. Christopher's". Type lost.

a. **s. simaethis** (Drury) *PAPILIO*. Illustr. Nat. Hist., 1: 3 (1770). TL — "St. Christopher's". Type lost. **415a.**

b. **s. sarita** (Skinner) *THECLA*. Ent. News, 6: 112 (1895). TL — Comal Co., Texas. HT in CM. **415b.**

Genus CXXX: **Phaeostrymon** Clench

in P. and A. Ehrlich, How Know Butts.: 190 (1961). Type-species by original designation *Thecla alcestis* W. H. Edwards, Trans. American Ent. Soc., 3: 271-272 (1871).

1. **alcestis** (W. H. Edwards) *THECLA*. Trans. American Ent. Soc., 3: 271-272 (1871). TL — Dallas, Texas. HT in CM.

a. **a. alcestis** (W. H. Edwards) *THECLA*. Trans. American Ent. Soc., 3: 271-272 (1871). TL — Dallas, Texas. HT in CM. **416a.**

b. **a. oslari** (Dyar) *THECLA*. J. New York Ent. Soc., 12: 40 (1904). TL — Tucson, Arizona. HT in USNM. **416b.**

Genus CXXXI: **Harkenclenus** dos Passos

J. Lepid. Soc., 24: 28, 36 (1970). Type-species, as replacement name, *Chrysophanus mopsus* Hübner, Zutr. z. Samml. Exot. Schmett., 1: 24 (1818) (=*Hesperia titus* Fabricius, Ent. Syst., 3: 297, 1793; subspecies).

= *Chrysophanus* Hübner, Zutr. z. Samml. Exot. Schmett., 1: 18 (1818). Type-species by designation of Riley, J. Bombay Nat. Hist. Soc., 28: 457 (1922) *Chrysophanus mopsus* Hübner, Zutr. z. Samml. Exot. Schmett., 1: 24 (1818) (=*Hesperia titus* Fabricius, Ent. Syst., 3: 297, 1793; subspecies). Name suppressed by I. C. Z. N. (Op. 541 [1959]) and placed on Official Index as Name No. 1235.

1. **titus** (Fabricius) *HESPERIA*. Ent. Syst., 3: 297 (1793). TL — "in Anglia" (Banks Coll., prob. Newfoundland). Loc. of type not known, but specimen so labeled exists at BM.

a. **t. titus** (Fabricius) *HESPERIA*. Ent. Syst., 3: 297 (1793). TL — "in Anglia" (Banks Coll., prob. Newfoundland). Loc. of type not known, but specimen so labeled exists in BM. **417a.**

b. **t. mopsus** (Hübner) *CHRYSOPHANUS*. Zutr. z. Samml. Exot. Schmett., 1: 24 (1818). TL — "Georgia". Type probably lost [see **Note 9**]. **417b.**

c. t. **watsoni** (Barnes and Benjamin) *STRYMON*. Bull. S. California Acad. Sci., 25: 94 (1926). TL — Kerrville, Texas. HT in USNM. **417c.**

d. t. **immaculosus** (W. P. Comstock) *STRYMON*. Bull. Brooklyn Ent. Soc., 8: 33 (1913). TL — Provo, Utah. HT in AMNH. **417d.**

Genus CXXXII: **Satyrium** Scudder

Bull. Buffalo Soc. Nat. Sci., 3: 106 (1876). Type-species by original designation *Lycaena fuliginosa* W. H. Edwards, Proc. Acad. Nat. Sci. Philadelphia, [1861]: 164 (1861).

= *Callipsyche* Scudder, Bull. Buffalo Soc. Nat. Sci., 3: 106 (1876). Type-species by original designation *Thecla behrii* W. H. Edwards, Trans. American Ent. Soc., 3: 18-19 (1870).

1. **behrii** (W. H. Edwards) *THECLA*. Trans. American Ent. Soc., 3: 18-19 (1870). TL — "Lake Mono" (= Mono Lake, Mono Co.), California. NT in CM, designated by Opler, *in* F. M. Brown, Trans. American Ent. Soc., 96: 30 (1970).

a. **b. behrii** (W. H. Edwards) *THECLA*. Trans. American Ent. Soc., 3: 18-19 (1870). TL — "Lake Mono" (= Mono Lake, Mono Co.), California. NT in CM, designated by Opler, *in* F. M. Brown, Trans. American Ent. Soc., 96: 30 (1970). **418a.**

= *kali* (Strecker) *THECLA*. Lepid. Rhop. Het.: 129 (1877). TL — "Arizona". HT in FMNH.

= ab. "nigroinita" (Gunder) *CALLIPSYCHE*. Ent. News, 35: 154 (1924). TL — Mammoth Camp, Mono Co., California. HT in AMNH.

b. **b. crossi** (Field) *CALLIPSYCHE*. J. Kansas Ent. Soc., 11: 130 (1938). TL — Nederland, Colorado. HT in USNM. **418b.**

c. **b. columbia** (McDunnough) *CALLIPSYCHE*. Canadian Ent., 76: 190 (1944). TL — Fairview, British Columbia. HT in CNC. **418c.**

2. **fuliginosum** (W. H. Edwards) *LYCAENA*. Proc. Acad. Nat. Sci. Philadelphia, 13: 164 (1861). TL — "California", restricted to Norden, El Dorado Co., California by F. M. Brown, Trans. American Ent. Soc., 96: 25-28 (1970). NT in CM, designated by Opler, *in* F. M. Brown, Trans. American Ent. Soc., 96: 28 (1970).

a. **f. fuliginosum** (W. H. Edwards) *LYCAENA*. Proc. Acad. Nat. Sci. Philadelphia, 13: 164 (1861). TL — "California", restricted to Norden, El Dorado Co., California by Brown, Trans. American Ent. Soc., 96: 25-28 (1970). NT in CM, designated by Opler, *in* F. M. Brown, Trans. American Ent. Soc., 96: 28 (1970). **419a.**

= *suasa* (Boisduval) *LYCAENA*. Ann. Soc. Ent. Belgique, 12: 51 (1869). TL — "mountains of eastern California". HT apparently in USNM [see **Note 22**].

= ab. "immaculata" Gunder. Canadian Ent., 59: 283 (1927). TL — McGee's Creek, nr. Mammoth, Mono Co., California. HT in AMNH.

b. **f. semiluna** Klots. Bull. Brooklyn Ent. Soc., 25: 161 (1930). TL — Half Moon Ranch, Moose P. O., Jackson Hole, Wyoming. HT in AMNH. **419b.**

3. **acadica** (W. H. Edwards) *THECLA*. Proc. Acad. Nat. Sci. Philadelphia, 14: 55 (1862). TL — London, Ontario. HT in CM [see **Note 358**].

a. **a. acadica** (W. H. Edwards) *THECLA*. Proc. Acad. Nat. Sci. Philadelphia, 14: 55 (1862). TL — London, Ontario. HT in CM [see **Note 358**]. **420a.**

= *souhegan* (Whitney) *THECLA*. Proc. Boston Soc. Nat. Hist., 12: 162 (1868). TL — Milford, New Hampshire. Type may be in MCZ [see **Note 359**].

= ab. "muskoka" (Watson and W. P. Comstock) *STRYMON*.

Bull. American Mus. Nat. Hist., 42: 450 (1920). TL — Gravenhurst, Muskoka dist., Ontario. HT in AMNH.

= ab. "swetti" (Watson and W. P. Comstock) *STRYMON.* Bull. American Mus. Nat. Hist., 42: 450 (1920). TL —Stony Cove, Greene Co., New York. HT in AMNH.

b. **a. coolinensis** (Watson and W. P. Comstock) *STRYMON.* Bull. American Mus. Nat. Hist., 42: 451 (1920). TL — Coolin, Idaho. HT in AMNH. **420b.**

c. **a. montanensis** (Watson and W. P. Comstock) *STRYMON.* Bull. American Mus. Nat. Hist., 42: 451 (1920). TL - "Montana". HT in AMNH. **420c.**

d. **a. watrini** (Dufrane) *THECLA.* Bull. Ann. Soc. Ent. Belgique, 79: 289 (1939). TL — "Saskatchewan". HT may be in Tervuren. **420d.**

4. **californica** (W. H. Edwards) *THECLA.* Proc. Acad. Nat. Sci. Philadelphia, 14: 223 (1862). TL — "California", restricted to Capell Creek, 9 mi. NNE of Napa, Napa Co., California by Opler, *in* F. M. Brown, Trans. American Ent. Soc., 96: 41-43 (1970). NT in CM, designated by Opler, *in* F. M. Brown, Trans. American Ent. Soc., 96: 43 (1970). **421.**

= *borus* (Boisduval) *THECLA.* Ann. Soc. Ent. Belgique, 12: 43 (1869). TL — "California". HT apparently in USNM [see **Note 22**].

= *cygnus* (W. H. Edwards) *THECLA.* Trans. American Ent. Soc., 3: 207-208 (1871). TL — "Nevada", restricted to 3 mi. SW of Virginia City, Storey Co., Nevada by Opler, *in* F. M. Brown, Trans. American Ent. Soc., 96: 45-46 (1970). NT in CM, designated by Opler, *in* F. M. Brown, Trans. American Ent. Soc., 96: 45-46 (1970).

5. **sylvinus** (Boisduval) *THECLA.* Ann. Soc. Ent. France, (2)10: 287 (1852). TL — "California". HT apparently in USNM [see **Note 22**].

a. **s. sylvinus** (Boisduval) *THECLA.* Ann. Soc. Ent. France, (2)10: 287 (1852). TL — "California". HT apparently in USNM [see **Note 22**]. **422a.**

b. **s. dryope** (W. H. Edwards) *THECLA.* Trans. American Ent. Soc., 3: 19-20 (1870). TL — "Plain Co., Colorado", later corrected to "Placer Co., California", restricted to Santa Clara Co., California by F. M. Brown, Trans. American Ent. Soc., 96: 49 (1970). Apparent HT in AMNH, *fide* F. M. Brown, Trans. American Ent. Soc., 96: 49-50 (1970). **422b.**

c. **s. itys** (W. H. Edwards) *THECLA.* Papilio, 2: 23 (1882). TL — "Prescott, Arizona". LT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 96: 40 (1970). **422c.**

d. **s. desertorum** (Grinnell) *STRYMON.* Canadian Ent., 49: 349 (1917). TL — Oak Creek, Kern Co., California. HT in AMNH. **422d.**

e. **s. putnami** (Hy. Edwards) *THECLA.* Proc. California Acad. Sci., 7: 143 (1877). TL — Mt. Nebo, Utah. HT in AMNH. **422e.**

6. **edwardsii** (Grote and Robinson) *THECLA.* Trans. American Ent. Soc., 1: 172 (1867). TL — London, Ontario. NT in AMNH, designated by Michener and dos Passos, American Mus. Novitates, (1210): 4 (1942) [see **Note 360**]. **423.**

7. **calanus** (Hübner) *RUSTICUS.* Samml. exot. Schmett., 1: pl. [100] [1809]. TL not stated. Type probably lost [see **Note 9**].

a. **c. calanus** (Hübner) *RUSTICUS.* Samml. exot. Schmett., 1: pl. [100] [1809]. TL not stated. Type probably lost [see **Note 9**]. **424a.**

= *wittfeldi* (W. H. Edwards) *THECLA.* Canadian Ent., 15: 136-137 (1883). TL — "Indian River, Florida", restricted to vic. Georgiana, Brevard Co., Florida by F. M. Brown, Trans. American Ent. Soc., 96: 39 (1970). LT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 96: 39 (1970).

b. **c. falacer** (Godart) *POLYMMATUS.* Encyc. Meth., 9: 633 [1824]. TL — nr. Philadelphia, Pennsylvania. Type should be in MNHN. **424b.**

= *lorata* (Grote and Robinson) *THECLA.* Trans. American Ent. Soc., 1: 171 (1867). TL — "Atlantic dist., Virginia". HT in AMNH.

= *inornata* (Grote and Robinson) *THECLA.* Trans. American Ent. Soc.,

1: 323 (1868). TL — New York, New York. HT in AMNH.
= *borealis* (Lafontaine) *STRYMON.* Trail and Landscape, 3: 151 (1969). TL — Brittania Park, Ottawa, Ontario, restricted by Lafontaine, J. Lepid. Soc., 24: 84 (1970). LT in CNC, designated by Lafontaine, J. Lepid. Soc., 24: 84 (1970) [see **Note 361**].

c. **c. godarti** (Field) *STRYMON.* J. Kansas Ent. Soc., 11: 129 (1938). TL — Rosemont, Teller Co., Colorado. HT in USNM. **424c.**

8. **caryaevorum** (McDunnough) *STRYMON.* Canadian Ent., 74: 1 (1942). TL — Merivale, Ontario. HT in CNC. **425.**

9. **kingi** (Klots and Clench) *STRYMON.* American Mus. Novitates, (1600): 1-2 (1952). TL — Savannah, Georgia. HT in AMNH. **426.**

10. **liparops** (Leconte) *THECLA. in* Boisduval and Leconte, Hist. Lepid. Amerique sept.: 99 (1833). TL — "Georgia". Type was probably Abbot's drawing, not a specimen.

a. **l. liparops** (Leconte) *THECLA. in* Boisduval and Leconte, Hist. Lepid. Amerique sept.: 99 (1833). TL — "Georgia". Type was probably Abbot's drawing, not a specimen. **427a.**

b. **l. strigosum** (Harris) *THECLA. in* Morris, Synops. Lepid. N. America: 101 TL — Blue Hills, Massachusetts. Loc. of type not known (MCZ?). **427b.**
= ab. "pruina" (Scudder) *THECLA.* Butt. E. U. S. and Canada, 2: 879-880 (1889). TL — Walpole, Massachusetts. HT may be in MCZ.

c. **l. fletcheri** (Michener and dos Passos) *STRYMON.* American Mus. Novitates, (1210): 3 (1942). TL — "Manitoba". HT in USNM. Replacement name for *liparops* Fletcher [see **Note 362**]. **427c.**

d. **l. aliparops** (Michener and dos Passos) *STRYMON.* American Mus. Novitates, (1210): 3 (1942). TL — Glenwood Springs, Colorado. HT in AMNH. **427d.**

11. **auretorum** (Boisduval) *THECLA.* Ann. Soc. Ent. France, (2)10: 288 (1852). TL — "northern California". HT apparently in USNM [see **Note 22**].

a. **a. auretorum** (Boisduval) *THECLA.* Ann. Soc. Ent. France, (2)10: 288 (1852). TL — "northern California". HT apparently in USNM [see **Notes 22 and 363**]. **428a.**
= *tacita* (Hy. Edwards) *THECLA.* Papilio, 1: 54 (1881). TL — Mendocino Co., California. HT in CM.

b. **a. spadix** (Hy. Edwards) *THECLA.* Papilio, 1: 53 (1881). TL — Tehachapi Pass, California. HT in AMNH. **428b.**

12. **tetra** (W. H. Edwards) *THECLA.* Trans. American Ent. Soc., 3: 19 (1870). TL — "California" by implication, restricted to Arroyo Bayo, Santa Clara Co., California by F. M. Brown and Clench, *in* F. M. Brown, Trans. American Ent. Soc., 96: 34-36 (1970). NT in CM, designated by F. M. Brown and Clench, *in* F. M. Brown, Trans. American Ent. Soc., 96: 36 (1970). **429.**
= *adenostomatis* (Hy. Edwards) *THECLA.* Proc. California Acad. Sci., 7: 144 (1877). TL — Tehachapi Pass, California. HT in AMNH.

13. **saepium** (Boisduval) *THECLA.* Ann. Soc. Ent. France, (2)10: 288 (1852). TL — "California", restricted to Tuolumne Co., California by F. M. Brown, Trans. American Ent. Soc., 96: 33 (1970). HT apparently in USNM [see **Note 22**].

a. **s. saepium** (Boisduval) *THECLA.* Ann. Soc. Ent. France, (2)10: 288 (1852). TL — "California", restricted by Tuolumne Co., California by F. M. Brown, Trans. American Ent. Soc., 96: 33 (1970) [see **Note 22**]. **430a.**
= *chalcis* (W. H. Edwards) *THECLA.* Trans. American Ent. Soc., 3: 276 (1869). TL — "California", restricted to Isabel Creek, Santa Clara Co., California by F. M. Brown, Trans. American Ent. Soc., 96: 30-33 (1970). NT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 96: 33 (1970).
= f. "fulvescens" (Hy. Edwards) *THECLA.* Proc. California Acad. Sci., 7: 172 (1877). TL — Lake Tahoe, Tehachapi Pass and Kern Co.,

California. ST's in AMNH.

= f. "chlorophora" (Watson and W. P. Comstock) *STRYMON*. Bull. American Mus. Nat. Hist., 42: 452 (1920). TL — San Diego, California. HT in AMNH.

= f. "provo" (Watson and W. P. Comstock) *STRYMON*. Bull. American Mus. Nat. Hist., 42: 452 (1920). TL — Provo, Utah. HT in AMNH.

b. s. **okanagana** (McDunnough) *STRYMON*. Canadian Ent., 76: 190 (1944). TL — Peachland, British Columbia. HT in CNC. **430b.**

Genus CXXXV: **Ocaria** Clench

J. Lepid. Soc., 24: 56 (1970). Type-species by original designation *Thecla ocrisia* Hewitson, Descr. n. sp. Lyc.: 5 (1868).

1. **ocrisia** (Hewitson) *THECLA*. Descr. n. sp. Lyc.: 5 (1868). TL - "Ecuador". HT in BM. **431.**

= *zora* (Hewitson) *THECLA*. Ill. diurn. Lepid. Lyc., 1: 134 (1869). TL — Pará, Amazons, [Brasil]. HT in BM.

Genus CXXXVI: **Ministrymon** Clench

in P. and A. Erlich, How Know Butts.: 196 (1961). Type-species by original designation *Thecla leda* W. H. Edwards, Papilio, 2: 23-24 (1882).

1. **clytie** (W. H. Edwards) *THECLA*. Field and Forest, 3: 88-89 (1877). TL — San Antonio, Bexar Co., Texas. HT in CM. **432.**

= *maevia* (Godman and Salvin) *THECLA*. Biol. Cent.-Americana, Lepid. Rhop., 2: 89 (1887). TL — San Geronimo, Guatemala. ST's in BM.

2. **leda** (W. H. Edwards) *THECLA*. Papilio, 2: 23-24 (1882). TL — Prescott, Arizona. LT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 96: 51 (1970). **433.**

= f. "ines" (W. H. Edwards) *THECLA*. Papilio, 2: 25-26 (1882). TL — "southern Arizona", restricted to vic. Tucson, Pima Co., Arizona by F. M. Brown, Trans. American Ent. Soc., 96: 52-53 (1970). LT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 96: 53 (1970).

Genus CXXXVII: **Tmolus** Hübner

Verz. bekannt. Schmett., (5): 76 [1819]. Type-species by designation of Scudder, Proc. American Acad. Arts Sci., 10: 285 (1875) *Papilio echion* Linnaeus, Syst. Nat., ed. 12, 1: 788 (1767).

*1. **echion** (Linnaeus) *PAPILIO*. Syst. Nat., ed. 12, 1: 788 (1767). TL — "in America". Loc. of type not known.

= *crolus* (Stoll) *PAPILIO*. *in* Cramer, Uitl. Kapellen, 4: 85 [1780]. TL — "Surinam". Type probably lost [see **Note 15**].

= *megarus* (Godart) *POLYOMMATUS*. Encyc. Meth., 9: 638 (1824). TL — "Brasil". Type may in MNHN.

a. e. **echiolus** (Draudt) *THECLA*. *in* Seitz, Macrolepid. World, 5: 786 (1920). TL — "Mexico". Loc. of type not known. **434a.**

2. **azia** (Hewitson) *THECLA*. Ill. diurn. Lepid. Lyc., 1: 144 (1873). TL — "Mexico". HT in BM. **435.**

= *?nipona* (Hewitson) *THECLA*. Ill. diurn. Lepid. Lyc., 1: 204 (1877). TL — "Brasil". HT in BM [see **Note 364**].

Genus CXXXVIII: **Oenomaus** Hübner

Verz. bekannt. Schmett., (5): 76 [1819]. Type-species by designation of Scudder, Proc. American Acad. Arts Sci., 10: 231 (1875) *Papilio ortygnus* Cramer, Uitl. Kapellen, 3: 84 [1779].

1. **ortygnus** (Cramer) *PAPILIO.* Uitl. Kapellen, 3: 84 [1779]. TL — "Surinam". Loc. of type not known [see **Note 7**]. **436.**

Genus CXXXIX: **Thereus** Hübner

Verz. bekannt. Schmett., (5): 79 [1819]. Type-species by monotypy *Papilio lausus* Cramer, Uitl. Kapellen, 3: 70 [1779].

= *Heterosmaitia* Clench, J. Res. Lepid., 2: 248, 254 (1964). Type-species by original designation *Thecla bourkei* Kaye, Trans. Ent. Soc. London, [1924]: 416 (1924).

1. **zebina** (Hewitson) *THECLA.* Ill. diurn. Lepid. Lyc., 1: 120 (1869). TL — "Nicaragua". HT in BM. **437.**

*2. **spurina** (Hewitson) *THECLA.* Ill. diurn. Lepid., 1: 102 (1867). TL — "Amazon". HT in BM. **438.**

3. **palegon** (Stoll) *PAPILIO. in* Cramer, Uitl. Kapellen, 3: 159 [1780]. TL "Sierra Leone . . . Africa", obviously in error. Loc. of type not known [see **Note 15**]. **439.**

= *myrtillus* (Stoll) *PAPILIO. in* Cramer, Uitl. Kapellen, 4: 178 [1782]. TL — "Surinam". Loc. of type not known [see **Note 15**].

= *juicha* (Reakirt) *THECLA.* Proc. Acad. Nat. Sci. Philadephia, [1866]: 338 (1867). TL — "nr. Verz Cruz, Mexico". Loc. of type not known [see **Note 365**].

Genus CXL: **Allosmaitia** Clench

J. Res. Lepid., 2: 248, 254 (1964). Type-species by original designation *Thecla coelebs* Herrich-Schäffer, Corresp.-Bl. zool.-min. Ver. Regensburg, 16: 142 (1862).

1. **pion** (Godman and Salvin) *THECLA.* Biol. Cent.-Americana, Lepid. Rhop., 2: 56 (1887). TL — Polochic Valley, Dueñas and Calderas, Guatemala and Chiriquí, Panama. ST's in BM. **440.**

Genus CXLI: **Calycopis** Scudder

Bull. Buffalo Soc. Nat. Sci., 3: 108 (1876). Type-species by original designation *Rusticus poeas* Hübner, Samml. exot. Schmett., 1: [101] [1811]. (=*Hesperia cecrops* Fabricius, Ent. Syst., 3: 270, 1793).

1. **cecrops** (Fabricius) *HESPERIA.* Ent. Syst., 3: 270 (1793). TL — "in Indiis". Loc. of type not known. **441.**

= *poeas* (Hübner) *RESTICUS.* Samml. exot. Schmett., 1: [101] [1811]. TL not stated. Loc. of type not known [see **Note 9**].

= ab. "gottschalki" (A. H. and L. Clark) *STRYMON.* Proc. Biol. Soc. Washington, 51: 3 (1938). TL — Fort Lewis Mt., Roanoake Co., Virginia. HT in USNM.

2. **isobeon** (Butler and H. Druce) *TMOLUS.* Cist. Ent., 1: 108 (1872). TL — Cartago, Costa Rica. ST's in BM. **442.**

= *beon* of authors, not *Papilio beon* Stoll, in Cramer, Uitl. Kapellen, 4: 61 [1780].

Genus CXLII: **Callophrys** Billberg

Enum. Ins. Mus. Billberg.: 80 (1820). Type-species by designation of Scudder, Proc. American Acad. Arts Sci., 10: 132 (1875) *Papilio rubi* Linnaeus, Syst. Nat., ed. 10, 1: 483 (1758).

= ‡ *Lycus* Hübner, Verz. bekannt. Schmett., (5): 74 [1819]. Type-species by designation of Scudder, Proc. American Acad. Arts Sci., 10: 210 (1875) *Papilio rubi* Linnaeus, Syst. Nat., ed., 10, 1: 482 (1758). Preoccupied by *Lycus* Fabricius, Mant. Ins., 1: 163 (1787).

= *Licus* Hübner, Zutr. z. Samml. Exot. Schmett., 2: 7 [1823]. Type-species by designation of Scudder, 4th Ann. Rept. Peabody Acad. Sci., [1871]: 52 (1872) *Papilio rubi* Linnaeus, Syst. Nat., ed. 10, 483 (1758). May have been proposed as replacement for *Lycus* Hübner, not Fabricius (see above) or as a new name — intention is unclear.

1. **dumetorum** (Boisduval) *THECLA*. Ann. Soc. Ent. France, (2)10: 291 (1852). TL — "California". HT apparently in USNM [see **Note 22**].
   a. **d. dumetorum** (Boisduval) *THECLA*. Ann. Soc. Ent. France, (2)10: 291 (1852). TL — "California". HT apparently in USNM [see **Note 22**]. 443a.
   b. **d. perplexa** Barnes and Benjamin. Contrib. Nat. Hist. Lepid. N. America, 5: 65 (1923). TL — San Diego, California. HT in USNM. 443b.
   c. **d. oregonensis** Gorelick. J. Res. Lepid., 7: 101-103 (1969 "1968"). TL — Kusshi Creek, Yakima Co., Washington. HT in CAS. 443c.
2. **comstocki** Henne. Bull. S. California Acad. Sci., 39: 71 (1940). TL — Providence Mtns., San Bernardino Co., California. HT in LACM. 444.
3. **lemberti** Tilden. J. Res. Lepid., 1: 292-298 (1963). TL — W above Tioga Pass, Yosemite Natl. Park, California. HT in CAS. 445.
4. **apama** (W. H. Edwards) *THECLA*. Papilio, 2: 137-138 (1882). TL — vic. of Fort Grant, SW of Mt. Graham, Cochise Co., Arizona. LT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 96: 69 (1970).
   a. **a. apama** (W. H. Edwards) *THECLA*. Papilio, 2: 137-138 (1882). TL — vic. Fort Grant, SW of Mt. Graham, Cochise Co., Arizona. LT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 96: 69 (1970). 446a.
   b. **a. homoperplexa** Barnes and Benjamin. Contrib. Nat. Hist. Lepid. N. America, 5: 68 (1923). TL — Golden, Colorado. HT in USNM. 446b.
5. **affinis** (W. H. Edwards) *THECLA*. Proc. Acad. Nat. Sci Philadelphia, 14: 223-224 (1862). TL — "Utah", but restricted to vic. Fort Bridger, Wyoming by F. M. Brown, Trans. American Ent. Soc., 96: 64-65 (1970) [see **Note 366**]. LT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 96: 65 (1970).
   a. **a. affinis** (W. H. Edwards) *THECLA*. Proc. Acad. Nat. Sci. Philadelphia, 14: 223-224 (1862). TL — "Utah", but restricted to vic. Fort Bridger, Wyoming by F. M. Brown, Trans. American Ent. Soc., 96: 64-65 (1970) [see **Note 366**]. LT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 96: 65 (1970). 447a.
   b. **a. washingtonia** Clench. Bull. Mus. Comp. Zool., 94: 225 (1944). TL — Alta Lake, Washington. HT in MCZ. 447b.
6. **viridis** (W. H. Edwards) *THECLA*. Proc. Acad. Nat. Sci. Philadelphia, 14: 223 (1862). TL — "California", restricted to San Francisco, California by Clench, Bull. Mus. Comp. Zool., 94: 226 (1944). LT in CM, designated by F. M. Brown and Clench, *in* F. M. Brown, Trans. American Ent. Soc., 96: 67 (1970). 448.
7. **sheridanii** (W. H. Edwards) *THECLA*. *in* Carpenter, Field and Forest, 3: 48 (1877). TL — "Big Horn Mtns., Wyoming", restricted to nr. Sheridan, Wyoming by F. M. Brown, Trans. American Ent. Soc., 96: 63 (1970). LT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 96: 63 (1970). Emendation [see **Note 367**].
   a. **s. sheridanii** (W. H. Edwards) *THECLA*. *in* Carpenter, Field and Forest, 449a.

3: 48 (1877). TL — "Big Horn Mtns., Wyoming", restricted to nr. Sheridan, Wyoming by F. M. Brown, Trans. American Ent. Soc., 96: 63 (1970). LT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 96: 63 (1970). Emendation [see **Note 367**].

b. s. **neoperplexa** Barnes and Benjamin. Contrib. Nat. Hist. Lepid. N. America, 5: 67 (1923). TL — Eureka, Utah. HT in USNM. **449b.**

c. s. **newcomeri** Clench. J. Res. Lepid., 2: 154 (1963). TL — Mill Creek, Yakima Co., Washington. HT in CM. **449c.**

Genus CXLIII: **Cyanophrys** Clench

in P. and A. Erlich, How Know Butts.: 211 (1961). Type-species by original designation *Strymon agricolor* Butler and H. Druce, Cist. Ent., 1: 105 (1872).

1. **miserabilis** (Clench) *THECLA*. The Ent., 79: 156 (1946). TL — Rincon, Guerrero, Mexico. HT in BM. **450.**
   = *longula* of authors, not Hewitson, Descr. New Sp. Lyc.: 34 (1868). misidentification.
   = *pastor* of authors, not Butler and H. Druce, Cist. Ent., 1: 105 (1872), misidentification.
2. **goodsoni** (Clench) *THECLA*. The Ent., 79: 186 (1946). TL — Tegucigalpa, Honduras. HT in BM. **451.**
   = *facuna* (H. A. Freeman) *THECLA*. Field and Lab., 18: 14-15 (1950). Misidentification, not *facuna* (Hewitson) *THECLA*, Ill. diurn. Lepid. Lyc., 1: 202 (1877).

Genus CXLIV: **Mitoura** Scudder

4th Ann. Rept. Peabody Acad. Sci., [1871]: 52 *et errata* (1872). Type-species by original designation *Thecla smilacis* Boisduval and Leconte, Hist. Lepid. Amerique sept.: 107 [1833] (= *Lycus gryneus* Hübner, Verz. bekannt. Schmett., (5) 74 [1819] [see **Note 368**].

1. **spinetorum** (Hewitson) *THECLA*. Ill. diurn. Lepid. Lyc.; 1: 94 (1867). TL — "California". HT in BM. **452.**
   = *ninus* (W. H. Edwards) *THECLA*. Trans. American Ent. Soc., 3: 270-271 (1871). TL — "Colorado", restricted to about 1 mi. E Kenosha Pass, Park Co., Colorado by F. M. Brown, Trans. American Ent. Soc., 96: 57 (1970). LT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 96: 59 (1970).
   = *cuyamaca* W. G. Wright. Bull. S. California Acad. Sci., 21: 19 (1922). TL — Julian, San Diego Co., California. Type probably in CAS.
2. **johnsoni** (Skinner) *THECLA*. Ent. News, 15: 298 (1904). TL — Seattle, Washington and British Columbia. ST's in CM. **453.**
3. **rosneri** K. Johnson. Bull. Allyn Mus., (38): 13-15 (1976). TL — 2 mi. S Kaslo, nr. Kootenay Lake, British Columbia. HT in AME.
   a. r. **rosneri** K. Johnson. Bull. Allyn Mus., (38): 13-15 (1976). TL — 2 mi. S Kaslo, nr. Kootenay Lake, British Columbia. HT in AME. **454a.**
   b. r. **plicataria** K. Johnson. Bull. Allyn Mus., (38): 15-17 (1976). TL — Cameron Lake, South Vancouver Island, British Columbia. HT in AME. **454b.**
4. **barryi** K. Johnson. Bull. Allyn Mus., (38): 17-19 (1876). TL — Union Co., Oregon. HT in AME.
   a. b. **barryi** K. Johnson. Bull. Allyn Mus., (38): 17-19 (1976). TL — Union Co., Oregon. HT in AME. **455a.**
   b. b. **acuminata** K. Johnson. Bull. Allyn Mus., (38): 20-21 (1976). TL — Butte Falls, Jackson Co., Oregon. HT in AMNH. **455b.**
5. **byrnei** K. Johnson. Bull. Allyn Mus., (38): 21-24 (1976). TL — 5.6 mi. S Emida, Benewah Co., Idaho. HT in AMNH. **456.**

6. **nelsoni** (Boisduval) *THECLA*. Ann. Soc. Ent. Belgique, 12: 43 (1869). TL — "California". HT apparently in USNM [see **Note 22**].
   a. **n. nelsoni** (Boisduval) *THECLA*. Ann. Soc. Ent. Belgique, 12: 43 (1869). TL — "California". HT apprently in USNM [see **Note 22**]. **457a.**
      = ab. "exoleta" (Hy. Edwards) *THECLA*. Papilio, 1: 53 (1881). TL — Big Trees, Calaveras Co., California. HT in AMNH.
   b. **n. muiri** (Hy. Edwards) *TEHCLA*. Papilio, 1: 53 (1881). TL — Mendocino Co., California. HT in AMNH. **457b.**
7. **siva** (W. H. Edwards) *THECLA*. Trans. American Ent. Soc., 5: 110-111 (1874). TL — "Wingate, Arizona", probably nr. Fort Wingate, Arizona. NT in CM, designated by F. M. Brown and Clench, *in* F. M. Brown, Trans. American Ent. Soc., 96: 61 (1970).
   a. **s. siva** (W. H. Edwards) *THECLA*. Trans. American Ent. Soc., 5: 110-111 (1874). TL — "Wingate, Arizona", probably nr. Fort Wingate, Arizona. NT in CM, designated by F. M. Brown and Clench, *in* F. M. Brown, Trans. American Ent. Soc., 96: 61 (1970). **458a.**
      = *rhodope* (Godman and Salvin) *THECLA*. Biol. Cent.-Americana, Lepid. Rhop., 2: 48 (1887). TL — "northern Sonora, Mexico". HT in BM.
   b. **s. juniperaria** J. A. Comstock. Bull. S. California Acad. Sci., 24: 37 (1925). TL — Mint Canyon, Sierra Madre Mtns., California. HT in LACM. **458b.**
   c. **s. mansfieldi** Tilden. Bull. S. California Acad. Sci., 50: 96 (1951). TL — 7 mi. W Simmler, San Luis Obispo Co., California. HT in CAS. **458c.**
8. **loki** (Skinner) *THECLA*. Ent. News, 18: 378 (1907). TL — Mt. Springs, San Diego Co., California. HT in CM. **459.**
9. **gryneus** (Hübner) *LYCUS*. Verz. bekannt. Schmett., (5): 74 [1819]. TL not stated. Type probably lost [see **Note 9**].
   a. **g. gryneus** (Hübner) *LYCUS*. Verz. bekannt. Schmett., (5): 74 [1819]. TL not stated. Type probably lost [see **Note 9**]. **460a.**
      = ‡ *damon* (Stoll) *PAPILIO*. *in* Cramer, Uitl. Kapellen, 4: 208 [1782]. TL — "Virginia". Type probably lost [see **Note 15**]. Preoccupied by *Papilio damon* [Denis and Schiffermüller], Wiener Verz.: 182 (1775).
      = *damastus* (Godart) *POLYOMMATUS*. Encyc. Meth., 9: 640 [1824]. TL — "Virginia". Type (?) in MNHN. Proposed as replacement name for *damon* Stoll (see above).
      = *auburniana* (Harris) *THECLA*. Rept. Ins. Inj. Veg., Flint's ed.: 277 (1862). TL — Sweet Auburn, Nr. Cambridge, Massachusetts. Type may be in MCZ [see **Note 369**].
      = *patersoniana* (Brehme) *THECLA*. Ent. News, 18: 82 (1907). TL — Garret Rock, Paterson, New Jersey. HT in USNM.
         = ab. "octoscripta" Buchholz. Bull. Brooklyn Ent. Soc., 46: 78 (1951). TL — Passaic Co., New Jersey. HT in AMNH.
   b. **g. smilacis** (Boisduval and Leconte) *THECLA*. Hist. Lepid. Amerique sept.: 107 [1833]. TL — "Georgia". Type probably never existed, name based on Abbot drawing. **460b.**
   c. **g. sweadneri** F. H. Chermock. Canadian Ent., 76: 216 (1940). TL — St. Augustine, Florida. Loc. of type not known (CM?). **460c.**
   d. **g. castalis** (W. H. Edwards) *THECLA*. Trans. American Ent. Soc., 3: 208 (1871). TL — "nr. Waco, Texas". LT in CM, designated by Clench, *in* F. M. Brown, Trans. American Ent. Soc., 96: 57 (1970). **460d.**
      = f. "discoidalis" (Skinner) *THECLA*. Canadian Ent., 29: 156 (1897). TL — Round Mountain, Blanco Co., Texas. HT in CM.
      = f. "brehmei" Barnes and Benjamin. Contrib. Nat. Hist. Lepid. N. America, 5: 64 (1923). TL — Shovel Mt., Texas. HT in USNM.
10. **hesseli** Rawson and Ziegler. J. New York Ent. Soc., 58: 74 (1950). TL — Lakehurst, Ocean Co., New Jersey. HT in USNM. **461.**

Genus CXLV: **Xamia** Clench

in P. and A. Ehrlich, How Know Butts.: 205 (1961). Type-species by original designation *Thecla xami* Reakirt, Proc. Acad. Nat. Sci. Philadelphia, [1866]: 332 (1866).

1. **xami** (Reakirt) *THECLA*. Proc. Acad. Nat. Sci. Philadelphia, [1866]: 332 (1866). TL — "nr. Vera Cruz, Mexico". Loc. of type not known. **462.**
   = *blenina* (Hewitson) *THECLA*. Descr. New Sp. Lyc.: 12 (1868). TL — "Mexico". HT in BM.

Genus CXLVI: **Sandia** Clench and P. Ehrlich

Ent. News, 71: 138 (1960). Type-species by original designation *Callophrys (Sandia) mcfarlandi* P. Ehrlich and Clench, Ent. News, 71: 138 (1960).

1. **mcfarlandi** P. Ehrlich and Clench. Ent. News, 71: 138 (1960). TL — La Cueva Canyon, W slope Sandia Mtns., Bernalillo Co., New Mexico. HT in AMNH. **463.**

Genus CXLVII: **Incisalia** Scudder

4th Ann. Rept. Peabody Acad. Sci., [1871]: 52 (1872). Type-species by original designation *Licus niphon* Hübner, Zutr. z. Samml. Exot. Schmett., 2: 7 [1823].

1. **augustus** (W. Kirby) *THECLA. in* Richardson, Fauna Bor.-Americana, 4: 298 (1837). TL — "Taken at 54° N. Lat." (Cumberland House, Manitoba?) Loc. of type not known.
   a. **a. augustus** (W. Kirby) *THECLA. in* Richardson, Fauna Bor.-Americana, 4: 298 (1837). TL — "Taken at 54° N. Lat." (Cumberland House, Manitoba?). Loc. of type not known. **464a.**
      = *augustinus* (Westwood) *THECLA. in* Doubleday, Westwood and Hewitson, Gen. diurn. Lepid., 2: 486 [1852]. TL — "Taken at 54° N. Lat." (Cumberland House, Manitoba?). Loc. of type not known. Proposed to replace *augustus* W. Kirby (see above), wrongly believed to be preoccupied [see **Note 370**].
   b. **a. helenae** dos Passos. American Mus. Novitates, (1230): 2 (1943). TL — Doyles Station, Newfoundland. HT in AMNH. **464b.**
   c. **a. croesoides** Scudder. Bull. Buffalo Soc. Nat. Sci., 3: 104 (1876). TL — "eastern United States". Type should be in MCZ. **464c.**
   d. **a. iroides** (Boisduval) *THECLA*. Ann. Soc. Ent. France, (2)10: 289 (1852). TL — "California". HT apparently in USNM [see **Note 22**]. **464d.**
      = ab. "immaculata" (Cockle) *THECLA*. Canadian Ent., 42: 204 (1897). TL — Kaslo, British Columbia. HT in CNC.
   e. **a. annetteae** dos Passos. American Mus. Novitates, (1230): 3 (1943). TL — "New Mexico". HT in AMNH. **464e.**
2. **fotis** (Strecker) *THECLA*. Lepid. Rhop. Het.: 129 (1878). TL — "Arizona". ST's in FMNH.
   a. **f. schryveri** Cross. Proc. Colorado Mus. Nat. Hist., 16: 20 (1937). TL — Chimney Gulch, Colorado. HT may be in Colorado Mus. Nat. Hist. [see **Note 371**]. **465a.**
   b. **f. fotis** (Strecker) *THECLA*. Lepid. Rhop. Het.: 129 (1878). TL — "Arizona". ST's in FMNH. **465b.**
   c. **f. mossii** (Hy. Edwards) *THECLA*. Papilio, 1: 54 (1881). TL — Esquimault, Vancouver Island, British Columbia. HT in AMNH. **465c.**
   d. **f. bayensis** (R. M. Brown) *CALLPHRYS*. J. Lepid. Soc., 23: 95-96 (1969). TL — San Bruno Mtns., San Mateo Co., California. HT in CAS. **465d.**
   e. **f. doudoroffi** dos Passos. Canadian Ent., 72: 168 (1940). TL — Big Sur, Monterey Co., California. HT in AMNH. **465e.**

f. **f. windi** Clench. Canadian Ent., 75: 185 (1943). TL — Placer Co., California. HT in AMNH. 465f.

3. **polios** Cook and Watson. Canadian Ent., 39: 202 (1907). TL — Lakehurst, New Jersey. HT in USNM.

a. **p. polios** Cook and Watson. Canadian Ent., 39: 202 (1907). TL — Lakehurst, New Jersey. HT in USNM. 466a.

= ab. "davisi" Watson and W. P. Comstock. Bull. American Mus. Nat. Hist., 42: 453 (1920). TL — Lakehurst, New Jersey. HT in AMNH.

b. **p. obscurus** Ferris and Fisher. J. Lepid. Soc., 27: 115-117 (1973). TL — Lookout Mtn., Jefferson Co., Colorado. HT in LACM. 466b.

4. **irus** (Godart) *POLYOMMATUS*. Encyc. Meth., 9: 674 [1824]. TL — "America?". HT in MNHN. [see **Note 372**].

a. **i. irus** (Godart) *POLYOMMATUS*. Encyc. Meth., 9: 674 [1824]. TL — "America?". HT in MNHN [see **Note 372**]. 467a.

= f. "balteata" Scudder. Butt. E. U. S. Canada, 2: 837 (1889). TL — Centre, New York. HT may be in MCZ.

b. **i. arsace** (Boisduval and Leconte) *THECLA*. Hist. Lepid. Amerique sept.: 103 [1833]. TL — "Virginia and Georgia". ST apparently in USNM [see **Note 22**]. 467b.

c. **i. hadros** Cook and Watson. Canadian Ent., 41: 181 (1909). TL — Houston, Texas. HT destroyed, PT's exist in AMNH and USNM, *fide* W. P. Comstock and Huntington, J. New York Ent. Soc., 68: 176 (1960). 467c.

5. **henrici** (Grote and Robinson) *THECLA*. Trans. American Ent. Soc., 1: 174 (1867). TL — Philadelphia, Pennsylvania. HT in AMNH.

a. **h. henrici** (Grote and Robinson) *THECLA*. Trans. American Ent. Soc., 1: 174 (1867). TL — Philadelphia, Pennsylvania. HT in AMNH. 468a.

b. **h. margaretae** dos Passos. American Mus. Novitates, (1230): 4 (1943). TL — Deland, Florida. HT in AMNH. 468b.

c. **h. solatus** Cook and Watson. Canadian Ent., 41: 181 (1909). TL — Blanco Co., Texas. HT destroyed, PT's exist in AMNH and USNM, *fide* W. P. Comstock and Huntington, J. New York Ent. Soc., 71: 193 (1963). 468c.

d. **h. turneri** Clench. Canadian Ent., 75: 182 (1943). TL — Cowley Co., Kansas. HT in MCZ. 468d.

6. **lanoraieensis** Sheppard. Canadian Ent., 66: 141 (1934). TL — Lanoraie, Quebec. HT in CNC. 469.

7. **niphon** (Hübner) *LICUS*. Zutr. z. Samml. exot. Schmett., 2: 7 [1823]. TL — "Florida". Type probably lost [see **Notes 9** and **373**].

a. **n. niphon** (Hübner) *LICUS*. Zutr. z. Samml. exot. Schmett., 2: 7 [1823]. TL — "Florida'. Type probably lost [see **Notes 9** and **373**]. 470a.

b. **n. clarki** T. N. Freeman. Canadian Ent., 70: 247 (1938). TL — Constance Bay, Ottawa region, Ontario. HT in CNC. 470b.

8. **eryphon** (Boisduval) *THECLA*. Ann. Soc. Ent. France, (2)10: 290 (1852). TL — "California". HT apparently in USNM [see **Note 22**].

a. **e. eryphon** (Boisduval) *THECLA*. Ann. Soc. Ent. France, (2)10: 290 (1852). TL — "California'. HT apparently in USNM [see **Note 22**]. 471a.

b. **e. sheltonensis** F. Chermock and Frechin. Pan.-Pac. Ent., 24: 212 (1948). TL — Shelton, Washington. HT in CM. 471b.

Genus CXLVIII: Arawacus Kaye

Trans. Ent. Soc. London, [1904]: 197 (1904). Type-species by original designation *Papilio linus* Sulzer, Abgekuerzte Gesch. . . Ins. . . Linn. Syst.: pl. 19, figs. 10-11 (1776) (= *Papilio aetolus* Sulzer, Abgekuertze Gesch. . . Ins. . . Linn. Syst.: pl. 19, figs. 7-8, 1776).

= *Dolymorpha* Holland, Butt. Book (rev. ed.): 228 (1931). Type-species

by monotypy *Thecla jada* Hewitson, Ill, dirun. Lepid. Lyc., 1: 87 [1867].

1. **jada** (Hewitson) *THECLA*. Ill. diurn. Lepid. Lyc., 1: 87 [1867]. TL — "Mexico". Type may be in BM, but not found in 1979 by LDM and S. Nicolay. **472.**

Genus CXLIX: **Euristrymon** Clench

in P. and A. Ehrlich, How Know Butts.: 212 (1961). Type-species by original designation *Papilio favonius* J. E. Smith, *in* Abbot and Smith, Nat. Hist. Rarer Lepid. Ins. Georgia, 1: 27 (1797).

1. **favonius** (J. E. Smith) *PAPILIO. in* Abbot and Smith, Nat. Hist. Rarer Lepid. Ins. Georgia, 1: 27 (1797). TL — "Georgia". Type specimen probably never existed, name based on Abbot plate. **473.**
2. **ontario** (W. H. Edwards) *THECLA*. Trans. American Ent. Soc., 2: 209-210 (1868). TL — London, Ontario. HT in CNC.
   a. **o. ontario** (W. H. Edwards) *THECLA*. Trans. American Ent. Soc., 2: 209-210 (1868). TL — London, Ontario. HT in CNC. **474a.**
   b. **o. autolycus** (W. H. Edwards) *THECLA*. Trans. American Ent. Soc., 3: 271 (1871). TL — Dallas, Texas. LT in CM, designate by F. M. Brown, Trans. American Ent. Soc., 96: 73 (1970). **474b.**
   c. **o. violae** (D. Stallings and Turner) *STRYMON*. Pan.-Pac. Ent., 23: 119-120 (1947). TL — Folsom, New Mexico. HT in Stallings and Turner colln (YPM?). **474c.**
   d. **o. ilavia** (Beutenmüller) *THECLA*. J. New York Ent. Soc., 7: 254 (1899). TL — "Texas". ST in AMNH. **474d.**
      = *mirabelle* (Barnes) *THECLA*. Canadian Ent., 32: 43 (1900). TL — "Utah". HT in USNM.
3. **polingi** (Barnes and Benjamin) *STRYMON*. Bull. S. California Acad. Sci., 25: 94 (1926). TL — Sunny Glen Ranch, nr. Alpine, Brewster Co., Texas. HT in USNM. **475.**

Genus CL: **Hypostrymon** Clench

in P. and A. Ehrlich, How Know Butts.: 214 (1961). Type-species by original designation *Thecla critola* Hewitson, Ent. Mo. Mag., 11: 105 (1874).

1. **critola** (Hewitson) *THECLA*. Ent. Mo. Mag., 11: 105 (1874). TL — "Mexico". HT in BM. **476.**

Genus CLI: **Parrhasius** Hübner

Verz. bekannt. Schmett., (5): 79 [1819]. Type-species by designation of Scudder, Proc. American Acad. Arts Sci., 10: 242 (1875) *Papilio polibetes* Stoll, *in* Cramer, Uitl. Kapellen, 4: 98 [1781] [see **Note 374**].

= Eupsyche Scudder, Bull. Buffalo Soc. Nat. Sci., 3: 112 (1876). Type-species by original designation *Thecla m-album* Boisduval and Leconte, Hist. Lépid. Amerique sept.: 86 [1833].

1. **m-album** (Boisduval and Leconte) *THECLA*. Hist. Lépid. Amerique sept.: 86 [1833]. TL — "Georgia". Type-specimen probably never existed, name based on Abbot plate. **477.**
   = ♂ f. "psyche" (Boisduval and Leconte) *THECLA*. Hist. Lepid. Amerique sept.: 88 [1833]. TL — "Georgia". Type-specimen probably never existed, name based on Abbot plate.

Genus CLII: **Strymon** Hübner

Zutr. z. Samml. exot. Schmett., 1: 22 [1818]. Type-species by designation of

Riley, J. Bombay Nat. Hist. Soc., 28: 472 (1922) *Strymon melinus* Hübner, Zutr. z. Samml. exot. Schmett., 1: 22 [1818].

= *Callipareus* Scudder, 4th Ann. Rept. Peabody Acad. Sci., [1871]: 51 (1872). Type-species by original designation *Strymon melinus* Hübner, Zutr. z. Samml. exot. Schmett., 1: 22 [1818].

= *Callicista* Grote, Bull. Buffalo Soc. Nat. Sci., 1: 178 (1873). Type-secies by monotypy *Callicista ocellifera* Grote, Bull. Buffalo Soc. Nat. Sci., 1: 178 (1873) (= *Hesperia columella* Fabricius, Ent. Syst., 3: 282, 1793; subspecies).

= *Uranotes* Scudder, Bull. Buffalo Soc. Nat. Sci., 3: 107 (1876). Type-species as replacement name *Strymon melinus* Hübner, Zutr. z. Samml. exot. Schmett., 1: 22 1818. Proposed to replace *Callipareus* Scudder (see above) wrongly believed to be preoccupied.

1. **melinus** Hübner. Zutr. z. Samml. exot. Schmett., 1: 22 [1818]. TL — "Georgia". Loc. of type not known [see **Note 9**].

a. **m. melinus** Hübner. Zutr. z. Samml. exot. Schmett., 1: 22 [1818]. TL — "Georgia". Loc. of type not known [see **Note 9**]. **478a.**

= *hyperici* (Boisduval and Leconte) *THECLA*. Hist. Lépid. Amerique sept.: 90 [1833]. TL — "Georgia and Florida". Type-specimen probably never existed, name based on Abbot plate, may be in USNM [see **Note 22**].

= ab. "youngi" Field. J. Ent. Zool. (Pomona Coll.), 28: 25 (1936). TL — Miami, Florida. HT in USNM.

b. **m. humuli** (Harris) *THECLA*. Rept. Ins. Massachusetts Inj. Veg.: 215 (1841). TL — "Massachusetts". Type may be in MCZ. **478b.**

= ab. "meinersi" Gunder. Canadian Ent., 59: 283 (1927). TL — Table Rock, North Carolina. HT in AMNH.

c. **m. franki** Field. J. Kansas Ent. Soc., 11: 127 (1938). TL — Lawrence, Kansas. HT in USNM. **478c.**

d. **m. pudica** (Hy. Edwards) *THECLA*. Proc. California Acad. Sci., 7: 172 (1876). TL — Contra Costa Co., California. HT in AMNH. **478d.**

e. **m. setonia** McDunnough. Canadian Ent., 59: 160 (1927). TL — Seton Lake, Lillooet, British Columbia. HT in CNC. **478e.**

f. **m. atrofasciata** McDunnough. Canadian Ent., 53: 47 (1921). TL — Wellington, British Columbia. HT in CNC. **478f.**

2. **avalona** (W. G. Wright) *THECLA*. Butt. W. Coast: 209 (1905). TL — Avalon, Avalon, Catalina Island, California. LT in CAS, designated by Tilden, Occ. Pap. California Acad. Sci., (118): 32 (1975). **479.**

3. **rufofusca** (Hewitson) *THECLA*. Ill. diurn. Lepid. Lyc., 1: 196 (1877). TL not stated. HT in BM. **480.**

4. **bebrycia** (Hewitson) *THECLA*. Descr. New Spp. Lyc.: 13 (1868). TL — "Mexico". HT in BM. **481.**

= *buchholzi* H. A. Freeman. Field and Lab., 18: 12 (1950). TL — Pharr, Texas. HT in AMNH.

5. **martialis** (Herrich-Schäffer) *THECLA*. Corresp.-Bl. zool.-min. Ver. Regensburg, 18: 164 (1864). TL — "Cuba". Loc. of type not known. **482.**

6. **yojoa** (Reakirt) *THECLA*. Proc. Acad. Nat. Sci. Philadelphia, [1866]: 339 (1866). TL — "nr. Vera Cruz, Mexico". Loc. of type not known (not in FMNH) [see **Note 375**]. **483.**

*7. **albata** (C. and R. Felder) *THECLA*. Reise Novara, 2: 261 [1865]. TL — "Venezuela and New Granada". ST's in BM.

a. **a. sedecia** (Hewitson) *THECLA*. Ent. Mo. Mag., 11: 105 (1874). TL — "Mexico". HT in BM. **484a.**

*8. **acis** (Drury) *PAPILIO*. Ill. Nat. Hist., 1: 2 [1773]. TL — "New York", but probably in the Lesser Antilles (W. P. Comstock and Huntington, Ann. New York Acad. Sci., 45: 62-63, 1943). Type lost [see **Note 99**].

a. **a. bartrami** (W. P. Comstock and Huntington) *THECLA*. Ann. New York Acad. Sci., 45: 65 (1943). TL — Miami, Florida. HT in AMNH. 485a.

9. **alea** (Godman and Salvin) *THECLA*. Biol. Cent.-Americana, Lepid. Rhop., 2: 95 (1887). TL — Tres Marias Islands, Mexico. HT in BM. 486.
= *laceyi* (Barnes and McDunnough) *CALLICISTA*. Canadian Ent., 42: 365 (1910). TL — Del Rio, Texas. HT in USNM.

*10. **columella** (Fabricius) *HESPERIA*. Ent. Syst., 3: 282 (1793). TL — "Americae meridionalis Insulis." Possible ST's in Copenhagen and Kiel.

a. **c. modesta** (Maynard) *LYCAENA*. American Nat., 7: 177 (1873). TL — "Florida". Type may be in MCZ. 487a.
= *ocellifera* (Grote) *CALLICISTA*. Bull. Buffalo Soc. Nat. Sci., 1: 178 (1873). TL — "Aurora, New York", surely in error. HT in AMNH.

b. **c. cybira** (Hewitson) *THECLA*. Ill. diurn. Lepid. Lyc., 1: 161 (1874). TL — "Cuba and Jamaica". ST's in BM. 487b.

c. **c. istapa** (Reakirt) *THECLA*. Proc. Acad. Nat. Sci. Philadelphia, [1866]: 339 (1866). TL — "Nr. Vera Cruz, Mexico". Loc. of type not known (not in FMNH.). 487c.

11. **limenia** (Hewitson) *THECLA*. Descr. New Spp. Lyc.: 32 (1868). TL — "Jamaica". HT in BM. 488.

12. **cestri** (Reakirt) *THECLA*. Proc. Acad. Nat. Sci. Philadelphia, [1866]: 338 (1866). TL — "nr. Vera Cruz, Mexico". Loc. of type not known (not in FMNH). 489.
= *persensis* (Dufrane) *THECLA*. Bull. Ann. Soc. Ent. Belgique, 79: 290 (1939). TL — Trujillo, Peru. HT should be in Tervuren.

13. **bazochii** (Godart) *POLYOMMATUS*. Encyc. Meth., 9: 681 [1824]. TL — "Brasil". HT in MNHN. 490.
= *thius* (Geyer) *HYREUS*. Zutr. z. Samml. exot. Schmett., 4: 33 [1832]. TL — "Brazil". Loc. of type not known [see **Note 11**].
= *agra* (Hewitson) *THECLA*. Descr. New Spp. Lyc.: 30 (1868). TL — "Amazon". HT in BM.

Genus CLIII: **Erora** Scudder

4th Ann. Rept. Peabody Acad. Sci., [1871]: 53 (1872). Type-species by original designation *Thecla laeta* W. H. Edwards, Proc. Acad. Nat. Sci. Philadelphia, [1862]: 55-56 (1862).

1. **laeta** (W. H. Edwards) *THECLA*. Proc. Acad. Nat. Sci. Philadelphia, 1862: 55-56 (1862). TL — London, Ontario. HT in CM. 491.
= *clothilde* (W. H. Edwards) *THECLA*. Proc. Ent. Soc. Philadelphia, 2: 15 (1863). TL — nr. Quebec, Quebec. Type lost.

*2. **quaderna** (Hewitson) *THECLA*. Descr. New Spp. Lyc.: 35 (1868). TL — "Mexico". HT in BM.

a. **q. sanfordi** dos Passos. American Mus. Novitates, (1052): 1-2 (1940). TL — White Mtns., Arizona. HT in AMNH. 492a.

Genus CLIV: **Electrostrymon** Clench

in P. and A. Ehrlich, How Know Butts.: 219 (1961). Type-species by original designation *Papilio endymion* Fabricius, Syst. Ent.: 519 (1775).

*1. **endymion** (Fabricius) *PAPILIO*. Syst. Ent.: 519 (1775). TL — "Brasil". Probable type in BM.
= *?xenophon* (Donovan) *PAPILIO*. Ins. India: 44 (1800). TL — "India" by implication. Type probably lost.
= *hugon* (Godart) *POLYOMMATUS*. Encyc. Meth., 9: 640 [1824]. TL not stated, but "Brasil" according to Doubleday, List Spec. Lepid. Ins. . . British Mus., (2): 32 (1847). HT in MNHN [see **Note 376**].
a. **e. cyphara** (Hewitson) *THECLA*. Ent. Mo. Mag., 11: 106 (1874). TL — "Panama". HT in BM. **493a.**
2. **angelia** (Hewitson) *THECLA*. Ill. diurn. Lepid. Lyc., 1: 162 (1874). TL — "Cuba and Jamaica". ST's in BM [see **Note 377**]. **494.**

Subfamily **Polyommatinae** Swainson

Phil. Mag., (2)1(3): 187 (1827) [see **Notes 1** and **378**].
= Plebejinae Tutt, British Butts. 3: 150-159 (1909).

Tribe **Lampidini** Tutt

British Butts., 2: 329 (1907).
= Zizeeridi Chapman, Trans. Ent. Soc. London, [1910]: 482-483 (1910).

Genus CLV: **Brephidium** Scudder

Bull. Buffalo Soc. Nat. Sci., 2: 123 (1876). Type-species by original designation *Lycaena exilis* Boisduval, Ann. Soc. Ent. France, (2)10: 294 (1852).
1. **exilis** (Boisduval) *LYCAENA*. Ann. Soc. Ent. France, (2)10: 294 (1852). TL — "California". HT apparently in USNM [see **Notes 22** and **379**]. **495.**
= *fea* (W. H. Edwards) *LYCAENA*. Trans. American Ent. Soc., 3: 211 (1871). TL — "nr. Waco, Texas". LT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 96: 357 (1970).
= ab. "coolidgei" Gunder. Ent. News, 36: 2 (1925). TL — Los Angeles, Los Angeles Co., California. HT in AMNH.
*2. **isophthalma** (Herrich-Schäffer) *LYCAENA*. Corresp.-Bl. zool.-min Ver. Regensburg, 16: 141 (1862). TL — "Cuba". Type may be lost, or in Havana, Cuba.
= *barbouri* Clench. Psyche, 59: 58 (1943). TL — Great Inagua Island, Bahamas. HT in MCZ.
a. **i. pseudofea** (Morrison) *LYCAENA*. Bull. Buffalo Soc. Nat. Sci., 1: 186-187 (1873). TL — Key West, Monroe Co., Florida. ST's may be in MCZ or USNM *(ex* Boston Soc. Nat. Hist.). **496a.**

Genus CLVI: **Leptotes** Scudder

Bull. Buffalo Soc. Nat. Sci., 3: 124 (1876). Type-species by original designation *Lycaena theonus* Lucas, *in* Sagra, Hist. . . Cuba, 7: 611 (1857) *(=Papilio cassius* Cramer, Uitl. Kapellen, 1: 36 [1775], subspecies).
= *Syntaurucoides* Kaye, Trans. Ent. Soc. London, [1904]: 190 (1904). Type-species by original designation *Papilio cassius* Cramer, Uitl. Kapellen, 1: 36 [1775] [see **Note 380**].
*1. **cassius** (Cramer) *PAPILIO*. Uitl. Kapellen, 1: 36 [1775]. TL — "Surinam". Type probably lost [see **Note 7**].
a. **c. theonus** (Lucas) *LYCAENA*. *in* Sagra, Hist. . . Cuba, 7: 611 (1857). TL — "Cuba". Loc. of type not known [see **Note 381**]. **497a.**

= *floridensis* (Morrison) *LYCAENA*. Bull. Buffalo Soc. Nat. Sci., 1: 187 (1873). TL — Key West, Florida. Type may be in USNM.

b. c. **striata** (W. H. Edwards) *LYCAENA*. Field and Forest, 3: 88 (1878). TL — San Antonio, Bexar Co., Texas. LT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 96: 358 (1970). **497b.**

2. **marina** (Reakirt) *LYCAENA*. Proc. Acad. Nat. Sci. Philadelphia, 20: 87 (1868). TL — "Orizaba and nr. Vera Cruz, Mexico". Probable ST's in FMNH. **498.**

= f. "burdicki" Henne. Ent. News, 46: 100 (1935). TL — Lenox, Los Angeles Co., California. HT may be in Univ. of Colorado colln.

= ♀ f. "reakirti" Field. J. Ent. Zool. (Pomona Coll.), 28: 26 (1936). TL — Mesa Butte, Arizona. HT in USNM.

= ab. "violacea" Gunder. Ent. News, 36: pl. 1 (1925). TL — Oak Glen, Riverside Co., California. HT in AMNH.

Genus CLVII: **Zizula** Chapman

Trans. Ent. Soc. London, [1910]: 483 (1910). Type-species by original designation *Lycaena gaika* Trimen, Trans. Ent. Soc. London, (3)1: 403 (1862).

1. **cyna** (W. H. Edwards) *LYCAENA*. Trans. American Ent. Soc., 9: 3 (1881). TL — San Antonio, Bexar Co., Texas. HT in CM [see **Note 382**]. **499.**

= *tulliola* (Godman and Salvin) *LYCAENA*. Biol. Cent.-Americana, Lepid. Rhop., 2: 108 (1887). TL — San Geronimo, Guatemala. HT in BM.

= *mela* (Strecker) *LYCAENA*. Lepid. Rhop. Het., Suppl. 3: 20 (1900). TL — "Colorado; Bastrop, Texas; Chihuahua, Mexico; Muzo, Colombia". ST's in FMNH.

Genus CLVIII: **Hemiargus** Hübner

Zutr. z. Samml. exot. Schmett., 1: 19 [1818]. Type-species by designation of Hemming, Gen. Names Holarctic Butts., 1: 104 (1934) *Hemiargus antibubastus* Hübner, Zutr. z. Samml. exot. Schmett., 1: 19 [1818] *(= Hesperia ceraunus* Fabricius, Ent. Syst., 3: 303 (1793), Subspecies).

= *Cyclargus* Nabokov, Psyche, 52: 14 (1945). Type-species by original designation *Lycaena ammon* Lucas, *in* Sagra, Hist. . . Cuba, 7: 612 (1857).

= *Echinargus* Nabokov, Psyche, 52: 27 (1945). Type-species by original designation *Lycaena isola* Reakirt, Proc. Acad. Nat. Sci., Philadelphia, [1866]: 332 (1866).

*1. **thomasi** Clench. Mem. Soc. Cubana Hist. Nat., 15: 407 (1941). TL — Russell's Creek, Cat Island, Bahamas. HT in MCZ [see **Note 383**].

a. **t. bethunebakeri** W. P. Comstock and Huntington (emendation). Ann. New York Acad. Sci., 45: 97 (1943). TL — Miami, Florida. HT in AMNH [see **Note 383**]. **500a.**

*2. **ceraunus** (Fabricius) *HESPERIA*. Ent. Syst., 3: 303 (1793). TL — "Americae meridionalis Insulis". Possible ST's in Kiel and Copenhagen.

a. c. **antibubastus** Hübner. Zutr. z. Samml. exot. Schmett., 1: 19 [1818]. TL — "Georgia". Type probably lost [see **Note 9**]. **501a.**

= *?pseudoptiletes* (Boisduval and Leconte) *ARGUS*. Hist. Lepid. Amerique sept.: 114 [1833]. TL — "Carolina, Virginia, Georgia". ST apparently in USNM [see **Note 22**].

b. c. **gyas** (W. H. Edwards) *LYCAENA*. Trans. American Ent. Soc., 3: 210-211 (1871). TL — Tucson, Pima Co., Arizona, designated by F. M. Brown and Clench, *in* F. M. Brown, Trans. American Ent. Soc., 96: 360-362 (1970). NT in CM, designated by F. M. Brown and Clench, *in* F. M. Brown, Trans. American Ent. Soc., 96: 362 (1970). **501b.**

= *astragala* (W. G. Wright) *LYCAENA*. Butt. W. Coast: 232 (1905). TL — San Bernardino, California. HT in CAS.

= *florencia* (Clemence) *LYCAENA*. Ent. News, 25: 28 (1914). TL — Huachuca Mtns., Arizona. Loc. of type not known.

c. **c. zachaeina** (Butler and H. Druce) *LAMPIDES*. Cist. Ent., 1: 104 (1872). TL — Cartago, Costa Rica. HT in BM. **501c.**

*3. **isola** (Reakirt) *LYCAENA*. Proc. Acad. Nat. Sci. Philadelphia, 1866: 332 (1866). TL — Vera Cruz, Mexico. HT loc. not known [see **Note 384**].

a. **i. alce** (W. H. Edwards) *LYCAENA*. Trans. American Ent. Soc., 3: 272-273 (1871). TL — "Colorado", restricted to Turkey Creek, Jefferson Co., Colorado by F. M. Brown, Trans. American Ent. Soc., 96: 362-363 (1970). NT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 96: 365 (1970). **502a.**

Tribe Everini Tutt

British Butts., 2: 327 (1907).

Genus CLIX: Everes Hübner

Verz. bekannt. Schmett., (5): 69 [1819]. Type-species by designation of Scudder, 4th Ann. Rept. Peabody Acad. Sci., [1871]: 56 (1872) *Papilio amyntas* [Denis and Schiffermüller, Ankundung Syst. Werkes Schmett. Wiener Gegend: 185 (1775) *(=Papilio argiades* Pallas, Reise d. Verscheid. Provinz. Russische Reiches, 1: 472, 1771).

= *Tiora* Evans, J. Bombay Nat. Hist. Soc., 21: 984 (1912). Type-species by designation of Hemming, Ann. Mag. Nat. Hist., (10)3: 242 (1929) *Papilio sebrus* Hübner, Samml. Europaische Schmett.: pl. *Pap.* 172, figs. 851-854 [1823-1824] *(=Everes decorata* Staudinger, Stettiner Ent. Ztg., [1886]: 204, 1886).

= *Ununcula* van Eecke, Zool. Meded. (Leiden), 1: 29 (1915). Type-species by designation of Hemming, Ann. Mag. Nat. Hist., (10): 243 (1929) *Papilio argiades* Pallas, Reise d. Verscheid. Provinz. Russische Reiches, 1: 472 (1771).

1. **comyntas** (Godart) *POLYOMMATUS*. Enc. Meth., 9: 660 [1824]. TL — "North America". HT in MNHN.

a. **c. comyntas** (Godart) *POLYOMMATUS*. Enc. Meth., 9: 660 [1824]. TL — "North America". HT in MNHN. **503a.**

= *sissona* (W. G. Wright) *LYCAENA*. Butt. W. Coast: 232 (1905). TL — Sisson, California. HT in CAS.

= *watermani* Nakahara. Bull. Brooklyn Ent. Soc., 20: 224 (1925). TL — Ithaca, New York. HT in USNM.

=[5] spring f. "meinersi" Field. J. Kansas Ent. Soc., 11: 132 (1936). TL — Lawrence, Kansas. HT in USNM.

b. **c. texana** F. Chermock. Canadian Ent., 76: 215 (1944). TL — San Antonio, Texas. HT in AME. **503b.**

2. **amyntula** (Boisduval) *LYCAENA*. Ann. Soc. Ent. France, (2)10: 294 (1852). TL — "California". HT apparently in USNM [see **Note 22**].

a. **a. amyntula** (Boisduval) *LYCAENA*. Ann. Soc. Ent. France, (2)10: 294 (1852). TL — "California". HT apparently in USNM [see **Note 22**]. **504a.**

=[5] ab. "dodgei" Gunder. Canadian Ent., 59: 283 (1927). TL — Santa Cruz, California. HT in AMNH.

b. **a. valeriae** Clench. J. New York Ent. Soc., 52: 59 (1944). TL — Lead, South Dakota. HT in MCZ. **504b.**

c. **a. albrighti** Clench. J. New York Ent. Soc., 52: 60 (1944). TL — Kings Hill, **504c.**

Montana. HT in MCZ.

d. **a. herrii** F. Grinnell. Canadian Ent., 33: 192 (1901). TL — Cochise Co., Arizona. ST's in LACM. **504d.**

= ab. "jemezensis" Gunder. Canadian Ent., 59: 284 (1927). TL — Jemez Springs, New Mexico. HT in AMNH.

= ab. "arizonensis" Gunder. Canadian Ent., 59: 284 (1927). TL — Santa Rita Mtns., Arizona. HT in LACM.

Tribe **Celastrini** Tutt

British Butts., 2: 327, 378 (1907-1908).

= Lycaenopsini Lorkovic, Act. Soc. Ent. Jugoslavia, [1931]: 126 (1931).

Genus CLX: **Celastrina** Tutt

Ent. Rec., 18: 131 (1906). Type-species by original designation *Papilio argiolus* Linnaeus, Syst. Nat., ed. 10, 1: 483 (1758).

1. **ladon** (Cramer) *PAPILIO.* Uitl. Kapellen, 3: 141 [1780]. TL — "Cape of Good Hope" (in error). Type probably lost [see **Notes 7** and **385**].

a. **l. ladon** (Cramer) *PAPILIO.* Uitl. Kapellen, 3: 141 [1780]. TL — "Cape of Good Hope" (in error). Type probably lost [see **Notes 7** and **385**]. **505a.**

= *pseudargiolus* (Boisduval and Leconte) *ARGUS.* Hist. Lepid. Amerique sept.: 118 [1833]. TL — "United States". Loc. of type not known (USNM? MNHN?).

= *violacea* (W. H. Edwards) *LYCAENA.* Proc. Ent. Soc. Philadelphia, 6: 201 (1866). TL — Kanawha River [nr. Coalburgh], West Virginia. LT in CM, designated by Clench, *in* F. M. Brown, Trans. American Ent. Soc., 96: 424 (1970).

= f. aest. "neglecta" (W. H. Edwards) *LYCAENA.* Proc. Acad. Nat. Sci. Philadelphia, 14: 56 (1862). TL — "Massachusetts, New York, Wisconsin, Lake Winnipeg", restricted to Hunter, Greene Co., New York by F. M. Brown, Trans. American Ent. Soc., 96: 426-427 (1970). LT in CM, designated by F. M. Brown and Clench, *in* F. M. Brown, Trans. American Ent. Soc., 96: 427 (1970) [see **Note 000**].

= f. "obsoletalunulata" Tutt. British Lepid., 9: 408 (1908). TL — "eastern United States". Loc. of type not known.

= f. "neglectamajor" Tutt. British Lepid.; 9: 407 (1908). TL — "eastern United States." Loc. of type not known (BM?).

b. **l. lucia** (W. Kirby) *POLYOMMATUS. in* Richardson, Fauna Bor.-Americana, (4): 299 (1837). TL — "taken in Latitude 54 deg.", perhaps Cumberland House, Manitoba. Type probably lost. **505b.**

= *marginata* (W. H. Edwards) *LYCAENA.* Papilio, 3: 86-87 (1883). TL — "New York, New England, Quebec", restricted to Orono, Maine by Clench, *in* F. M. Brown, Trans. American Ent. Soc., 96: 421-423 (1970). LT in CM, designated by Clench, *in* F. M. Brown, Trans. American Ent. Soc., 96: 423 (1970).

= ab. "fumida" (Scudder) *CYANIRIS.* Butt. E. U. S. and Canada, 2: 933 (1889). TL not stated. Loc. of type not known.

= ab. "pseudora" (Scudder) *CYANIRIS.* Butt. E. U. S. and Canada, 2: 933-934 (1889). TL — Milford, New Hampshire. Loc. of type not known.

= ab. "brunnea" Tutt. British Lepid., 9: 413 (1908). TL — Brooklyn, New York. Loc. of type not known (BM?).

= ab. "subtusjuncta" Tutt. British Lepid., 9: 414 (1908). TL —

Wollaston, Massachusetts. Loc. of type not known (BM?).
= ab. "inaequalis" Tutt. British Lepid., 9: 416 (1908). TL — Brooklyn, New York. Loc. of type not known (BM?).

c. l. **argentata** (Fletcher) *LYCAENA*. Trans. Roy. Soc. Canada, (4): 213 (1903). TL — Cartwright, Manitoba. HT in USNM. **505c.**

d. l. **nigrescens** (Fletcher) *LYCAENA*. Trans. Roy. Soc. Canada, (4): 213 (1903). TL — Kaslo, British Columbia. HT in USNM. **505d.**
= *quesnellii* (Cockle) *CYANIRIS*. Canadian Ent., 42: 204 (1910). TL — Bala Lake, Quesnelle, British Columbia. HT in CNC.
= ab. "maculatasuffusa" (Cockle) *CYANIRIS*. Canadian Ent., 42: 204 (1910). TL — Bala Lake, Quesnelle, British Columbia. Type may be in CNC.

e. l. **sidara** (Clench) *LYCAENOPSIS*. J. New York Ent. Soc., 52: 273 (1944). TL — Manitou, Colorado. HT in MCZ. **505e.**

f. l. **echo** (W. H. Edwards) *LYCAENA*. Proc. Ent. Soc. Philadelphia, 2: 506-507 (1864). TL — "California", restricted to San Francisco, California by F. M. Brown and Clench, *in* F. M. Brown, Trans. American Ent. Soc., 96: 429-431 (1970). NT in CM, designated by F. M. Brown and Clench, *in* F. M. Brown, Trans. American Ent. Soc., 96: 430-431 (1970). **505f.**
= *bakeri* (Clench) *LYCAENOPSIS*. J. New York Ent. Soc., 52: 274 (1944). TL — Baker, Oregon. HT in MCZ.
= ab. "nunenmacheri" (Strand) *CYANIRIS*. Arch. f. Naturges., (A)80(11): 159 (1915). TL — "El Dorado Co., California and Lake Co., Oregon". Type may be in ZMHU.

g. l. **gozora** (Boisduval) *LYCAENA*. Consid. Lepid. Guatemala: 17 (1870). TL — "Honduras". Type may be in MNHN or BM [see **Note 386**]. **505g.**

h. l. **cinerea** (W. H. Edwards) *LYCAENA*. Papilio, 3: 8 (1883). TL — "Fort Grant, Cochise Co. and Mt. Graham, Artizona", restricted to Fort Grant, W side Mt. Graham, Arizona by Clench, *in* F. M. Brown, Trans. American Ent. Soc., 96: 427-428 (1970). LT in CM, designated by Clench *in* F. M. Brown, American Ent. Soc., 96: 428 (1970). **505h.**
= f. *aest.* "arizonensis" (W. H. Edwards) *LYCAENA*. Trans. American Ent. Soc., 11: 306 (1884). TL — "Fort Grant and Graham Mt., Arizona", restricted to Fort Grant, W side of Mt. Graham, Arizona, by Clench, *in* F. M. Brown, Trans. American Ent. Soc., 96: 428 (1970). LT in CM, designated by Clench, *in* F. M. Brown, Trans. American Ent. Soc., 96: 429 (1970).

2. **ebenina** Clench. Ann. Carnegie Mus., 44: 33-44 (1972). TL — Coalburgh, Kanawha Co., West Virginia. HT in CM [see **Note 000**]. **506.**
♂ f. "nig" (Strecker) *LYCAENA*. Butts. Moths N. America: 95 (1878). TL — "Virginia". Type apparently lost.
♀ f. "intermedia" (Strecker) *LYCAENA* Butts. Moths N. America: 95 (1878). TL — "Virginia". Type apparently lost.
= ab. "nigra" (W. H. Edwards) *LYCAENA*. Trans. American Ent. Soc., 11: 306 (1884). TL — Kanawha River, nr. Coalburgh, West Virginia. LT in CM, designated by Clench, *in* F. M. Brown, Trans. American Ent. Soc., 96: 425-426 (1970).

Tribe **Scolitantidini** Tutt

British Butts., 2: 327 (1907).
= Cyanirini Tutt, British Butts., 2: 327 (1907).
= Glaucopsychini Hemming, Trans. Ent. Soc. London, 79: 324 (1931).

Genus CLXI: **Philotes** Scudder

Bull. Buffalo Soc. Nat. Sci., 3: 116 (1876). Type-species by original designation

Lycaena regia Boisduval, Ann. Soc. Ent. Belgique, 12: 46 (1869) *(=Lycaena sonorensis* C. and R. Felder, Reise . . . Novara, Lepid. Rhop., (2): 281, 1865).

1. **sonorensis** (C. and R. Felder) *LYCAENA*. Reise . . . Novara, Lepid. Rhop., (2): 281 (1865). TL — Sonora, Mexico. Loc. of type not known (BM?). 507.
   = *regia* (Boisduval) *LYCAENA*. Ann. Soc. Ent. Belgique, 12: 46 (1869). TL — Los Angeles, California. HT apparently in USNM [see **Note 22**].
      = f. "comstocki" Gunder. Ent. News, 36: 6 (1925). TL — San Gabriel River, Duarte, Los Angeles Co., California. HT in AMNH.
         = ab. "sonoralba" Watson and W. P. Comstock. Bull. American Mus. Nat. Hist., 42: 456 (1920). TL — San Diego, California. HT in AMNH.

Genus CLXII: **Euphilotes** Mattoni

J. Res. Lepid., 16: 223-226 (1977). Type-species by original designation *Lycaena enoptes* Boisduval, Ann. Soc. Ent. France, (2)10: 298 (1852) [see **Note 387**].

1. **battoides** (Behr) *LYCAENA*. Proc. California Acad. Sci., 3: 282 (1867). TL — San Joaquin River, California. Type destroyed by fire, 1906.
   a. **b. centralis** (Barnes and McDunnough) *PHILOTES*. Contrib. Nat. Hist. Lepid. N. America, 4: 215 (1917). TL — Salida, Colorado. HT in USNM. 508a.
   b. **b. ellisii** (Shields) *SHIJIMIAEOIDES*. Bull. Allyn Mus., (28): 12-14 (1975). TL — West Creek, Unaweep Canyon, Mesa Co., Colorado. HT in AME. 508b.
   c. **b. glaucon** (W. H. Edwards) *LYCAENA*. Trans. American Ent. Soc., 3: 210 (1871). TL — "Nevada", restricted to Storey Co., Nevada by F. M. Brown, Trans. American Ent. Soc., 96: 406 (1970). LT in AMNH, designated by F. M. Brown, Trans. American Ent. Soc., 96: 409 (1970). 508c.
   d. **b. oregonensis** (Barnes and McDunnough) *PHILOTES*. Contrib. Nat. Hist. Lepid. N. America, 3: 214 (1917). TL — Crater Lake, Oregon. HT in USNM. 508d.
   e. **b. baueri** (Shields) *SHIJIMIAEOIDES*. Bull. Allyn Mus., (28): 15-16 (1975). TL — W side Gilbert Pass, Inyo Co., California. HT in AME. 508e.
   f. **b. intermedia** (Barnes and McDunnough) *PHILOTES*. Contrib. Nat. Hist. Lepid. N. America, 3: 214 (1917). TL — Shasta Co., California. HT in USNM. 508f.
      = ab. "malcolmi" (Gunder) *PHILOTES*. Canadian Ent., 59: 282 (1927). TL — American River, Placer Co., California. HT in AMNH.
   g. **b. battoides** (Behr) *LYCAENA*. Proc. California Acad. Sci., 3: 282 (1867). TL — San Joaquin River, California. Type destroyed by fire, 1906. 508g.
   h. **b. martini** (Mattoni) *PHILOTES*. Bull. S. California Acad. Sci., 53: 157 [1955]. TL — Oatman, Mohave Co., Arizona. HT in USNM. 508h.
   i. **b. bernardino** (Barnes and McDunnough) *PHILOTES*. Contrib. Nat. Hist. Lepid. N. America, 3: 116 (1917). TL — Camp Baldy, San Bernardino Mtns., California. HT in USNM. 508i.
      = ab. "baldyensis" (Gunder) *PHILOTES*. Ent. News, 36: 6 (1925). TL — Camp Baldy, San Bernardino Mtns., California. HT in AMNH.
   j. **b. comstocki** (Shields) *SHIJIMIAEOIDES*. Bull. Allyn Mus., (28): 12 (1975). TL — Tehachapi, Kern Co., California. HT in LACM. 508j.
   k. **b. allyni** (Shields) *SHIJIMIAEOIDES*. Bull. Allyn Mus., (28): 10-11 (1975). TL — El Segundo, Los Angeles Co., California. HT in AME. 508k.
2. **enoptes** (Boisduval) *LYCAENA*. Ann. Soc. Ent. France, (2)10: 298 (1852). TL — "California". HT apprently in USNM [see **Note 22**].
   a. **e. ancilla** (Barnes and McDunnough) *PHILOTES*. Contrib. Nat. Hist. Lepid. N. America, 4: 79 (1918). TL — Eureka, Juab Co., Utah. HT in USNM. 509a.
   b. **e. columbiae** (Mattoni) *PHILOTES*. Bull. S. California Acad. Sci., 53: 162 [1955]. TL — nr. Brewster, Okanogan Co., Washington. HT in USNM. 509b.

c. **e. mojave** (Watson and W. P. Comstock) *PHILOTES.* Bull. American Mus. Nat. Hist., 42: 455 (1920). TL — Mojave Desert, California. HT in AMNH. **509c.**

d. **e. enoptes** (Boisduval) *LYCAENA.* Ann. Soc. Ent. France, (2)10: 298 (1852). TL — "California". HT apparently in USNM [see **Note 22**]. **509d.**

e. **e. bayensis** (Langston) *PHILOTES.* J. Lepid. Soc., 17: 208-212 [1964]. TL — China Camp, nr. Point San Pedro, Marin Co., California. HT in CAS. **509e.**

f. **e. smithi** (Mattoni) *PHILOTES.* Bull. S. California Acad. Sci., 53: 160 [1955]. TL — Burns Creek, Monterey Co., California. HT in USNM. **509f.**

g. **e. tildeni** (Langston) *PHILOTES.* J. Lepid. Soc., 17: 212-216 [1964]. TL — Del Puerto Canyon, 22 mi. W Patterson, Stanislaus Co., California. HT in CAS. **509g.**

h. **e. langstoni** (Shields) *SHIJIMIAEOIDES.* Bull. Allyn Mus., (28): 23-24 (1975). TL — 6 mi. S Sherwin Summit, Mono Co., California. HT in AME. **509h.**

i. **e. dammersi** (J. A. Comstock and Henne) *PHILOTES.* Bull. S. California Acad. Sci., 32: 24 (1933). TL — Snow Creek, Riverside Co., California. HT in USNM. **509i.**

3. **pallescens** (Tilden and Downey) *PHILOTES.* Bull. S. California Acad. Sci., 54: 25 (1955). TL — Little Granite Mtns., Dugway Proving Grounds, Tooele Co., Utah. HT in CAS.

a. **p. pallescens** (Tilden and Downey) *PHILOTES.* Bull. S. California Acad. Sci., 54: 25 (1955). TL — Little Granite Mtn., Dugway Proving Grounds, Tooele Co., Utah. HT in CAS. **510a.**

b. **p. elvirae** (Mattoni) *PHILOTES.* J. Res. Lepid., 4: 94-99 [1966]. TL — 3.5 mi. W Pearblossom, Los Angeles Co., California. HT in LACM. **510b.**

4. **rita** (Barnes and McDunnough) *LYCAENA.* Canadian Ent., 48: 223 (1916). TL — "southern Arizona". HT in USNM.

a. **r. rita** (Barnes and McDunnough) *LYCAENA.* Candaian Ent., 48: 223 (1916). TL — "southern Arizona". HT in USNM. **511a.**

b. **r. coloradensis** (Mattoni) *PHILOTES.* J. Res. Lepid., 4: 88-92 [1966]. TL — Kendrick, Lincoln Co., Colorado. HT in LACM. **511b.**

c. **r. spaldingi** (Barnes and McDunnough) *PHILOTES.* Contrib. Nat. Hist. Lepid. N. America, 3: 216 (1917). TL — Provo, Utah. HT in USNM. **511c.**

d. **r. emmeli** (Shields) *SHIJIMIAEOIDES.* Bull Allyn Mus., (28): 16-20 (1975). TL — Little Flat Top, Emery Co., Utah. HT in AME. **511d.**

e. **r. mattonii** (Shields) *SHIJIMIAEOIDES.* Bull. Allyn Mus., (28): 20-21 (1975). TL — 4 mi. W Charleston Reservoir, Elko Co., Nevada. HT in AME. **511e.**

Genus CLXIII: **Philotiella** Mattoni

J. Res. Lepid., 16: 227-230 (1977). Type-species by original designation *Lycaena speciosa* Hy. Edwards, Proc. California Acad. Sci., 7: 173 (1876) [see **Note 388**].

1. **speciosa** (Hy. Edwards) *LYCAENA.* Proc. California Acad. Sci., 7: 173 (1876). TL — Havilah, Kern Co., California. HT in AMNH. **512.**

= f. "bohartorum" (Tilden) *PHILOTES.* J. Res. Lepid., 6: 281-283 [1968]. TL — Briceburg, Mariposa Co., California. HT in LACM.

Genus CLXIV: **Glaucopsyche** Scudder

4th Ann. Rept. Peabody Acad. Sci., [1871]: 54 (1872). Type-species by original designation *Polyommatus lygdamus* Doubleday, Entomologist, 1: 209 (1841) [see **Note 389**].

= *Phaedrotes* Scudder, Bull. Buffalo Soc. Nat. Sci., 3: 115 (1876). Type-species by original designation *Lycaena catalina* Reakirt, Proc. Acad. Nat. Sci. Philadelphia, 1866: 244 (1866) *(= Lycaena piasus* Boisduval, Ann. Soc. Ent. France, (2)10: 299, 1852, subspecies) [see **Note 390**].

1. **piasus** (Boisduval) *LYCAENA*. Ann. Soc. Ent. France, (2)10: 299 (1852). TL — "California". HT apparently in USNM [see **Note 22**].
   a. **p. piasus** (Boisduval) *LYCAENA*. Ann. Soc. Ent. France, (2)10: 299 (1852). TL — "California". HT apparently in USNM [see **Note 22**]. **513a.**
      = *viaca* (W. H. Edwards) *LYCAENA*. Trans. American Ent. Soc., 3: 209 (1871). TL — "Sierra Nevada", restricted to Lake Tahoe, Placer Co., California by F. M. Brown, Trans. American Ent. Soc., 96: 410-411 (1970). HT in AMNH.
   b. **p. sagittigera** (C. and R. Felder) *LYCAENA*. Reise . . . Novara, Lepid. Rhop., 2: 281 (1865). TL — Sonora, Mexico. Type(s) may be in BM. **513b.**
      = *catalina* (Reakirt) *LYCAENA*. Proc. Acad. Nat. Sci. Philadelphia, 6: 244 (1866). TL — "California". ST's in FMNH.
      = ‡*lorquini* (Behr) *LYCAENA*. Proc. California Acad. Nat. Sci., 3: 280 (1867). TL — higher Sierra Nevada, California. Type destroyed in 1906 earthquake and fire. Preoccupied by *Lycaena lorquinii* Herrich-Schäffer, Schmett. Europaisches, 6: 25 (1850).
      = *rhaea* (Boisduval) *LYCAENA*. Ann. Soc. Ent. Belgique, 12: 51 (1869). TL — Los Angeles, California. HT apparently in USNM [see **Notes 22** and **391**].
         = ab. "gorgonioi" (Gunder) *PHAEDROTES*. Ent. News., 36: 4 (1925). TL — San Gorgonio Mtns., San Bernardino Co., California. HT in AMNH.
   c. **p. nevada** F. M. Brown. Proc. Ent. Soc. Washington, 77: 501-504 (1975). TL — Bob Scott Campground, Toiyabe Natl. For., Lander Co., Nevada. HT in USNM. **513c.**
   d. **p. daunia** (W. H. Edwards) *LYCAENA*. Trans. American Ent. Soc., 3: 272 (1871). TL — "Colorado", restricted to Turkey Creek, Jefferson Co., Colorado by F. M. Brown, Trans. American Ent. Soc., 96: 412 (1970). HT in CM. **513d.**
   e. **p. toxeuma** F. M. Brown, J. Lepid. Soc., 25: 245 (1971). TL Garnett Valley, Summerland, British Columbia. HT in CNC. **513e.**
2. **lygdamus** (Doubleday) *POLYOMMATUS*. Entomologist, 1: 209 (1841). TL — "pine forests of Georgia". HT in BM [see **Note 392**].
   a. **l. mildredae** F. H. Chermock. Canadian Ent., 76: 216 (1944). TL — Baddeck, Cape Breton Island, Nova Scotia. Loc. of type not known. **514a.**
   b. **l. couperi** Grote. Bull. Buffalo Soc. Nat. Sci., 1: 185 (1873). TL — Anticosti Island, Quebec. Loc. of type not known. **514b.**
      = ab. "mcdunnoughi" Gunder. Canadian Ent., 59: 284 (1927). TL — "Saskatchewan". HT in CNC [see **Note 393**].
   c. **l. afra** (W. H. Edwards) *LYCAENA*. Canadian Ent., 15: 211 [1884]. TL — "Deer River country", restricted to vic. Brandon, Manitoba by F. M. Brown, Trans. American Ent. Soc., 96: 413 (1970). NT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 96: 415 (1970). **514c.**
   d. **l. lygdamus** (Doubleday) *POLYOMMATUS*. Entomologist: 1: 209 (1841). TL — "pine forests of Georgia". HT in BM [see **Note 392**]. **514d.**
      = *nittanyensis* F. H. Chermock. Canadian Ent., 76: 216 (1944). TL — Bear Meadows, nr. State College, Pennsylvania. HT in AME.
      = *boydi* A. H. Clark. Proc. Ent. Soc. Washington, 50: 176-178 (1948). TL — Ice Mtn., Hampshire Co., West Virginia. HT in USNM.
   e. **l. jacki** D. Stallings and Turner. J. Kansas Ent. Soc., 20: 93 (1947). TL — Barber Co., Kansas. HT in Stallings and Turner colln. (YPM?). **514e.**
   f. **l. oro** (Scudder) *NOMIADES*. Canadian Ent., 8: 23 (1876). TL — "Colorado". Type may be in MCZ. **514f.**
      = ab. "leussleri" Gunder. Canadian Ent., 59: 283 (1927). TL — Harrisburg, Banner Co., Nebraska. HT in Ohio State Univ. collection.
   g. **l. arizonensis** McDunnough. Canadian Ent., 68: 113 (1934). TL — White **514g.**

Mtns., Arizona. HT in CNC.

h. l. **australis** F. Grinnell. Canadian Ent., 49: 350 (1917). TL — Pasadena, California. HT probably in AMNH. **514h.**

= ab. "orcus" (W. H. Edwards) *LYCAENA*. Trans. American Ent. Soc., 2: 376 (1869). TL not stated. HT in CM.

= ab. "sinepunctata" J. A. Comstock. Bull. S. California Acad. Sci., 25: 28 (1926). TL — "California". HT in LACM [see **Note 394**].

i. l. **incognitus** Tilden. J. Res. Lepid., 12: 213-214 [1974]. TL — Alum Rock Park, Santa Clara Co., California. HT in CAS [see **Note 395**]. **514i.**

= ab. "sternitzkyi" Gunder. Bull. Brooklyn Ent. Soc., 24: 325 (1929). TL — Fairfax, Marin Co., California. HT in AMNH.

j. l. **palosverdesensis** E. M. Perkins and J. Emmel. Proc. Ent. Soc. Washington, 79: 468-471 (1978). TL — Rancho Palos Verdes, Palos Verdes Peninsula, Los Angeles Co., California. HT in USNM. **514j.**

k. l. **columbia** (Skinner) *LYCAENA*. Ent. News, 28: 213 (1917). TL — Fort Columbia, Washington. HT in CM. **514k.**

3. † **xerces** (Boisduval) *LYCAENA*. Ann. Soc. Ent. France, (2)10: 300 (1852). TL — "California". HT apparently in USNM [see **Notes 22** and **396**]. **515.**

= f. "antiacis" (Boisduval) *LYCAENA*. Ann. Soc. Ent. France, (2)10: 300 (1852). TL — San Francisco, California. HT apprently in USNM [see **Note 22**].

= f. "intermedia" F. H. Chermock. Bull. Brooklyn Ent. Soc., 24: 20 (1929). TL — Lone Mtn., San Francisco, California. HT in AME.

= f. "behrii" (W. H. Edwards) *LYCAENA*. Proc. Acad. Nat. Sci. Philadelphia, 14: 224 (1862). TL — "California", restricted to vic. San Francisco, California by F. M. Brown, Trans. American Ent. Soc., 96: 415 (1970). LT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 96: 417 (1970) [see **Note 000**].

= f. "mertila" (W. H. Edwards) *LYCAENA*. Proc. Ent. Soc. Philadelphia, 6: 202 (1866). TL — "California", restricted to vic. San Francisco, California by F. M. Brown, Trans. American Ent. Soc., 96: 418 (1970). HT in CM.

= ab. "huguenini" Gunder. Ent. News, 36: 3 (1925). TL — San Francisco, California. HT in LACM.

= ab. "barnesi" Gunder. Canadian Ent., 59: 282 (1927). TL — San Francisco, California. HT in USNM.

= f. "polyphemus" (Boisduval) *LYCAENA*. Ann. Soc. Ent. Belgique, 12: 49 (1869). TL — "California". HT apparently in USNM [see **Note 22**].

Tribe **Polyommatini** Swainson

Phil. Mag., (2)1(3): 187 (1827) [see **Note 1**].

= Plebejini Tutt, British Butts., 2: 327 (1907) [see **Note 1**].

Genus CLXV: **Lycaeides** Hübner

Verz. bekannt. Schmett., (5): 69 [1819]. Type-species by designation of I. C. Z. N. (Op. 269, 1954) *Papilio argyrognomon* Bergsträsser, Nomencl. Beschr. Ins. Grafschaft Hanau-Munsenburg 2: 76 [1779].

*1. **argyrognomon** (Bergsträsser) *PAPILIO*. Nomencl. Beschr. Ins. Grafschaft Hanau-Munsenburg, 2: 76 [1779]. TL — Hanau-Münzenburg, Germany. HT probably in Frankfort, Germany.

=‡*idas* (Linnaeus) *PAPILIO*. Faun. Svecica: 284 (1761). TL — "Sweden". Loc. of type not known. Preoccupied by *P. idas* Linnaeus, Syst. Nat., ed. 10, 1: 488 (1758).

a. **a. anna** (W. H. Edwards) *LYCAENA*. Proc. Acad. Nat. Sci. Philadelphia, 13: 163 (1861). TL — "California", restricted to vic. Truckee, Nevada Co., California by F. M. Brown, Trans. American Ent. Soc., 96: 366-367 (1970). NT in CM, designated by Nabokov, Bull. Mus. Comp. Zool., 101: 486 (1949). **516a.**
= *cajona* (Reakirt) *LYCAENA*. Proc. Ent. Soc. Philadelphia, 6: 147 (1866). TL — "California". ST's in FMNH.
= *argyrotoxus* (Behr) *LYCAENA*. Proc. California Acad. Nat. Sci., 3: 281 (1867). TL — "Sierra Nevada". Type lost.
= *philemon* (Boisduval) *LYCAENA*. Ann. Soc. Ent. Belgique, 12: 47-48 (1869). TL — "central California". HT apparently in USNM [see **Note 22**].

b. **a. ricei** (Cross) *PLEBEIUS*. Pan-Pac. Ent., 13: 88 (1937). TL — Big Cultus Lake, Deschutes Co., Oregon. HT in Denver Mus. Nat. Hist. **516b.**
= *fretchini* (F. H. Chermock) *PLEBEIUS*. Canadian Ent., 76: 214 [1945]. TL — Paradise Valley, Mt. Rainier, Washington. HT in AME.

c. **a. lotis** (Lintner) *LYCAENA*. 30th Rept. New York State Mus. Nat. Hist., [1876]: 169 (1878). TL — Mendocino Co., California. HT in New York State Mus. **516c.**

d. **a. alaskensis** (F. H. Chermock) *PLEBEIUS*. Canadian Ent., 76: 213 [1945]. TL — Fort Yukon, Alaska. HT in AME [see **Note 397**]. **516d.**

e. **a. scudderi** (W. H. Edwards) *LYCAENA*. Proc. Acad. Nat. Sci. Philadelphia, 13: 164 (1861). TL — "Lake Winnipeg, Manitoba", corrected to mouth of Saskatchewan River, Manitoba by Scudder, Winnipeg Country: 56 (1886). NT in MCZ, designated by Nabokov, Psyche, 51: 109-111 (1945) [see **Note 398**]. **516e.**
= *subarcticus* (F. H. Chermock) *PLEBEIUS*. Canadian Ent., 76: 213 [1945]. TL — Great Slave lake, Northwest Territories. Loc. of type not known.

f. **a. aster** (W. H. Edwards) *LYCAENA*. Canadian Ent., 14: 194-195 (1882). TL — "southern Newfoundland", restricted to Avalon Peninsula, Newfoundland by F. M. Brown, Trans. American Ent. Soc., 96: 370-371 (1970). LT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 96: 371 (1970). **516f.**

g. **a. empetri** (T. N. Freeman) *PLEBEIUS*. Canadian Ent., 70: 62 (1938). TL — Baddeck, Nova Scotia. HT in CNC. **516g.**

h. **a. ferniensis** (F. H. Chermock) *PLEBEIUS*. Canadian Ent., 76: 215 [1945]. TL — Fernie, British Columbia. HT in AME. **516h.**

i. **a. atrapraetextus** (Field) *PLEBEIUS*. J. Kansas Ent. Soc., 12: 135-136 (1939). TL — Priest River, Idaho. HT in USNM. **516i.**
= *sweadneri* (F. H. Chermock) *PLEBEIUS*. Canadian Ent., 76: 214 [1945]. TL — Uranus Peak, Shoshone Co., Idaho. HT in Chermock coll.

j. **a. sublivens** Nabokov. Bull. Mus. Comp. Zool., 101: 513-516 (1949). TL — vic. Telluride, San Miguel Mtns., Colorado. HT in MCZ [see **Note 399**]. **516j.**

k. **a. longinus** Nabokov. Bull. Mus. Comp. Zool., 101: 516-520 (1949). TL — Jackson Hole, Wyoming. HT in MCZ. **516k.**

l. **a. nabokovi** Masters. J. Lepid. soc., 26: 151-153 (1972). TL — 13 mi. N. Two Harbors, Lake Co., Minnesota. HT in CM. **516l.**

2. **melissa** (W. H. Edwards) *LYCAENA*. Trans. American Ent. Soc., 4: 346-348 (1873). TL — "Colorado", restricted to La Plata Peak, vic. Twin Lakes, Lake Co., Colorado by F. M. Brown, Trans. American Ent. Soc., 96: 372 (1970). LT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 96: 374-375 (1970).

a. **m. samuelis** Nabokov. Psyche, 50: 97-99 (1944). TL — "Center" (=Karner), New York. HT in MCZ [see **Note 400**]. **517a.**

b. **m. melissa** (W. H. Edwards) *LYCAENA*. Trans. American Ent. Soc., 4: 346-348 (1873). TL — "Colorado", restricted to La Plata Peak, vic. Twin **517b.**

Lakes, Lake Co., Colorado by F. M. Brown, Trans. American Ent. Soc., 96: 372 (1970). LT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 96: 374-375 (1970).

= *pseudosamuelis* Nabokov. Bull. Mus. Comp. Zool., 101: 529-530 (1949). TL — vic. Red. Mt. Inn, "between Mt. Elbert and La Plata, Pitkin Co.," Colorado. HT in MCZ.

c. **m. annetta** (W. H. Edwards) *LYCAENA*. Papilio, 2: 48-49 (1882). TL — "nr. Salt Lake City", but probably in Wasatch Mtns., nr. Salt Lake City, Utah (Nabokov, Bull. Mus. Comp. Zool., 101: 532 (1949)). LT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 96: 376-377 (1970). **517c.**

d. **m. fridayi** (F. H. Chermock) *PLEBEIUS*. Canadian Ent., 76: 215 [1945]. TL — Mammoth, California. Loc. of type not known (CNC?). **517d.**

e. **m. paradoxa** (F. H. Chermock) *PLEBEIUS*. Canadian Ent., 76: 214 [1945]. TL — Tehachapi Mtns., California. Loc. of type not known (CNC?). **517e.**

= *inyoensis* Nabokov. Bull. Mus. Comp. Zool., 101: 530-532 (1949). Raising to subspecific rank Gunder aberrational name (see below).

= ab. "inyoensis" (Gunder) *PLEBEIUS*. Canadian Ent., 59: 281 (1927). TL — Olancha, Inyo Co., California. HT in AMNH.

Genus CLXVI: **Plebejus** Kluk

Zwierz. Hist. Nat. Pocz. Gospod, 4: 89 (1802). Type-species by designation of Hemming, Entomologist, 66: 224 (1933) *Papilio argus* Linnaeus, Syst. Nat., ed. 10, 1: 483 (1758) [see **Note 401**].

= *Rusticus* Hübner, Tentamen: [1] [1806]. Type-species by monotypy *Papilio argus* Linnaeus, Syst. Nat., ed. 10, 1: 483 (1758). Name rejected by I. C. Z. N. (Op. 97) and placed on Official Index Rej. Names (Name 85, Op. 278; 1958).

1. **saepiolus** (Boisduval) *LYCAENA*. Ann. Soc. Ent. France, (2)10: 296 (1852). TL — "mountains of California". HT apparently in USNM [see **Note 22**].

a. **s. amica** (W. H. Edwards) *LYCAENA*. Proc. Ent. Soc. Philadelphia, 2: 80-81 (1863). TL — "Mackenzie's River", restricted to Fort Simpson (NT from Fort Smith), Northwest Territories by F. M. Brown, Trans. American Ent. Soc., 96: 377-378 (1970). NT in CNC, designated by F. M. Brown, Trans. American Ent. Soc., 96: 379 (1970). **518a.**

= *kodiak* (W. H. Edwards) *LYCAENA*. Trans. American Ent. Soc., 3: 20 (1870). TL — "Kodiak", perhaps near Sitka, Alaska. LT in FMNH, designated by F. M. Brown, Trans. American Ent. Soc., 96: 382 (1970).

b. **s. whitmeri** F. M. Brown. Ann. Ent. Soc. America, 44: 286 (1951). TL — Rampart Range Road, nr. Woodland Park, Teller Co., Colorado. HT in AMNH. **518b.**

= ♀ f. "caerulescens" Ferris. J. Res. Lepid., 8: 91-93 [1970]. TL — Crooks Tower Rd., Black Hills Natl. Forest, Lawrence Co., South Dakota. HT in Ferris coll.

= ab. "leussleri" Gunder. Canadian Ent., 59: 282 (1927). TL — Cassel's Park Co., Nebraska. HT in Ohio State Univ. coll.

c. **s. gertschi** dos Passos. Canadian Ent., 70: 46 (1938). TL — Cedar Breaks, nr. Cedar City, Utah. HT in AMNH. **518c.**

d. **s. insulanus** Blackmore. Proc. Ent. Soc. British Columbia, (14): 8 (1919). TL — Victoria, British Columbia. HT in CNC. **518d.**

e. **s. saepiolus** (Boisduval) *LYCAENA*. Ann. Soc. Ent. Frances, (2)10: 296 (1852). TL — "mountains of California". HT apparently in USNM [see **Note 22**]. **518e.**

= alt. f. "aehaja" (Behr) *LYCAENA*. Proc. Calif. Acad. Nat. Sci., 3: 280 (1867). TL — "alpine headwaters Tuolumne River, California". Type lost.

= ♀ f. "rufescens" (Boisduval) *LYCAENA*. Ann. Soc. Ent. Belgique, 12: 48 (1869). TL — "interior of California". HT apparently in USNM [see **Note 22**].

f. s. **hilda** (J. and F. Grinnell) *CUPIDO*. J. New York Ent. Soc., 15: 46 (1907). TL — Upper cienega at head of S Fork, Santa Ana, California. HT in AMNH. **518f.**

= ab. "garthi" Gunder. Canadian Ent., 60: 168 (1928). TL — Tahquitz Valley, Riverside Co., California. HT in AMNH.

= ab. "boharti" Gunder. Pan-Pac. Ent., 8: 127 (1932). TL — Yosemite Natl. Park, California. HT in AMNH.

Genus CLXVII: **Plebulina** Nabokov

Psyche, 51: 104 (1944). Type-species by original designation *Lycaena emigdionis* F. Grinnell, Ent. News, 16: 115 (1905).

1. **emigdionis** (F. Grinnell) *LYCAENA*. Ent. News, 16: 115 (1905). TL — San Emigdio Canyon, Kern Co., California. HT in AMNH. **519.**

= *melimona* (W. G. Wright) *LYCAENA*. Butt. W. Coast: 226 (1905). TL — San Bernardino Mtns., California. LT in CAS, designated by Tilden, Occ. Pap. California Acad. Sci. (118): 36 (1975).

Genus CLXVIII: **Icaricia** Nabokov

Psyche, 51: 104 (1944). Type-species by original designation *Lycaena icarioides* Boisduval, Ann. Soc. Ent. France, (2)10: 297 (1852).

1. **icarioides** (Boisduval) *LYCAENA*. Ann. Soc. Ent. France, (2)10: 297 (1852). TL — "mountains of California". HT apparently in USNM [see **Note 22**].

a. i. **pembina** (W. H. Edwards) *LYCAENA*. Proc. Acad. Nat. Sci. Philadelphia. 14: 224 (1862). TL — "Lake Winnipeg", restricted to Lost Horse Road, Ravalli Co., Montana by F. M. Brown, Trans. American Ent. Soc., 96: 397-401 (1970). NT in CM, designated by Downey, *in* F. M. Brown, Trans. American Ent. Soc., 96: 401-402 (1970). **520a.**

b. i. **lycea** (W. H. Edwards) *LYCAENA*. Proc. Ent. Soc. Philadelphia, 2: 507 (1864). TL — "Rocky Mountains", restricted to Gregory Canyon, Boulder, Colorado by Downey, *in* F. M. Brown, Trans. American Ent. Soc., 96: 395-396 (1960). NT in CM, designated by Downey, *in* F. M. Brown, Trans. American Ent. Soc., 96: 396-397 (1970). **520b.**

= *rapahoe* (Reakirt) *LYCAENA*. Proc. Ent. Soc. Philadelphia, 6: 146 (1866). TL — "Rocky Mountains". Apparent ST's in FMNH.

c. i **ardea** (W. H. Edwards) *LYCAENA*. Trans. American Ent. Soc., 3: 209-210 (1871). TL — Nevada, vic. Virginia City. HT in AMNH. **520c.**

d. i. **buchholzi** (dos Passos) *PLEBEIUS*. Canadian Ent., 70: 47 (1938). TL — White Mtns., Arizona. HT in AMNH. **520d.**

e. i. **blackmorei** (Barnes and McDunnough) *PLEBEIUS*. Canadian Ent., 51: 92 (1919). TL — Goldstream, Vancouver Island, British Columbia. HT in USNM. **520e.**

f. i. **montis** (Blackmore) *PLEBEIUS*. Canadian Ent., 55: 99 (1923). TL — Mt. McLean, nr. Lillooet, British Columbia. HT in CNC. **520f.**

g. i. **icarioides** (Boisduval) *LYCAENA*. Ann. Soc. Ent. France, (2)10: 297 (1852). TL — "mountains of California". HT apparently in USNM [see **Note 22**]. **520g.**

= *phileros* (Boisduval) *LYCAENA*. Ann. Soc. Ent. Belgique, 12: 50 (1869). TL — "mountains of eastern California". HT apparently in USNM [see **Note 22**].

= *fulla* (W. H. Edwards) *LYCAENA*. Trans. American Ent. Soc., 3: 194-195 (1870). TL — "California", restricted to Sonora Pass, Mono Co.,

California by Downey, *in* F. M. Brown, Trans. American Ent. Soc., 96: 384-387 (1970). NT in CM, designated by Downey, *in* F. M. Brown, Trans. American Ent. Soc., 96: 386-387 (1970).

= *mintha* (W. H. Edwards) *LYCAENA*. Trans. American Ent. Soc., 3: 194 (1870). TL — "Nevada", corrected to Marin Co., California by F. M. Brown, Trans. American Ent. Soc., 96: 387-390 (1970). LT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 96: 389-390 (1970).

= f. "maricopa" (Reakirt) *LYCAENA*. Proc. Acad. Nat. Sci. Philadelphia, [1866]: 245 (1866). TL — "California". Possible ST's in FMNH.

= ab. "daedalus" (Behr) *LYCAENA*. Proc. California Acad. Nat. Sci., 3: 280 (1867). TL — alpine regions, headwaters Tuolumne River, California. Type lost (destroyed by 1906 earthquake and fire).

= ab. "spinimaculata" (Gunder) *PLEBEIUS*. Ent. News, 37: 8 (1926). TL — Delta, Trinity Co., California. HT in AMNH.

h. **i. pardalis** (Behr) *LYCAENA*. Proc. California Acad. Nat. Sci., 3: 279 (1867). TL — Contra Costa Range, vic. San Antonio, California. Type lost (destroyed by 1906 earthquake and fire). **520h.**

= *erymus* (Boisduval) *LYCAENA*. Ann. Soc. Ent. Belgique, 12: 48 (1869). TL — "Oregon". HT apparently in USNM [see **Note 22**].

= f. "fenderi" (Macy) *PLEBEIUS*. Ent. News, 42: 1 (1931). TL — 6 mi. SE McMinnville, Oregon, HT in Macy coll.

= ab. "windi" (Gunder) *PLEBEIUS*. Canadian Ent., 65: 173 (1933). TL — Berkeley, California. HT in AMNH.

i. **i. pheres** (Boisduval) *LYCAENA*. Ann. Soc. Ent. France, (2)10: 297 (1852). TL — San Francisoc, California. HT apparently in USNM [see **Note 22**]. **520i.**

j. **i. missionensis** (Hovanitz) *PLEBEIUS*. Pan-Pac. Ent., 13: 187 (1937). TL — Twin Peaks, San Francisco, California. HT in CAS. **520j.**

k. **i. moroensis** (Sternitzky) *PLEBEIUS*. Pan-Pac. Ent., 7: 93 (1930). TL — Moro Beach, San Luis Obispo Co., California. HT in CAS. **520k.**

l. **i. evius** (Boisduval) *LYCAENA*. Ann. Soc. Ent. Belgique, 12: 49 (1869). TL — "southern California". HT apparently in USNM [see **Note 22**]. **520l.**

2. **shasta** (W. H. Edwards) *LYCAENA*. Proc. Acad. Nat. Sci. Philadelphia, 14: 224-225 (1862). TL — "California", restricted to south of Kings-Kern Divide, Tulare Co., California by F. M. Brown, Trans. American Ent. Soc., 96: 403 (1970). NT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 96: 404 (1970).

a. **s. minnehaha** (Scudder) *AGRIADES*. Proc. Boston Soc. Nat. Hist., 17: 88 (1874). TL — "Heart River crossing, Dakotah Terr." ST's in MCZ. **521a.**

= *browni* (Ferris) *PLEBEIUS*. Ent. News, 81: 203-207 (1970). TL — Powder River Pass, Johnson Co., Wyoming. HT in LACM.

b. **s. pitkinensis** (Ferris) *PLEBEIUS*. Bull. Allyn Mus., (36): 2-3 (1976). TL — Snowmass Lake, Pitkin Co., Colorado. HT in AME. **521b.**

c. **s. shasta** (W. H. Edwards) *LYCAENA*. Proc. Acad. Nat. Sci. Philadelphia, 14: 224-225 (1862). TL — "California", restricted to south of Kings-Kern Divide, Tulare Co., California by F. M. Brown, Trans. American Ent. Soc., 96: 403 (1970). NT in CM, designated by F. M. Brown, Trans. American Soc., 96: 404 (1970). **521c.**

= *zelmira* (C. and R. Felder) *LYCAENA*. Reise . . . Novara, Lepid. Rhop., 2: 282 [1865]. TL — "California and Utah". Types may be in BM.

= *calchas* (Behr) *LYCAENA*. Proc. California Acad. Nat. Sci., 3: 281 (1867). TL — Mono Lake, California. Type lost (destroyed by 1906 earthquake and fire) [see **Note 402**].

= *nivium* (Boisduval) *LYCAENA*. Ann. Soc. Ent. Belgique, 12: 47 (1869).

TL — "Oregon". HT apparently in USNM [see **Note 22**].

= f. "comstocki" (C. Fox) *PLEBEIUS*. Ent. News, 35: 140 (1924). TL — Glacier Point, Yosemite Natl. Park, California. HT in AMNH.

3. **acmon** (Westwood and Hewitson) *LYCAENA*. Gen. diurn. Lepid., 2: pl. 76, fig. 2 [1852]. TL — "California". HT in BM.

a. **a. lutzi** (dos Passos) *PLEBEIUS*. Canadian Ent., 70: 48 (1938). TL — Snowslide Canyon, 8 mi. from Montpelier, Idaho. HT in AMNH. **522a.**

= f. "pseudolupini" Ferris. J. Res. Lepid., 8: 91 [1970]. TL — nr. Eagle Rock, Sherman Range, Albany Co., Wyoming. HT in Ferris coll.

b. **a. texana** Goodpasture. Pan-Pac. Ent., 49: 149-159 (1973). TL — 1 mi. S Hillside, Yavapai Co., Arizona. HT in LACM. **522b.**

c. **a. spangelatus** (Burdick) *PLEBEIUS*. Canadian Ent., 74: 195 (1942). TL — Gray Wolf Range, Olympic Mtns., Clallam Co., Washington. HT in CNC. **522c.**

d. **a. acmon** (Westwood and Hewitson) *LYCAENA*. Gen. diurn. Lepid., 2: pl. 76, fig. 2 [1852]. TL — "California". HT in BM. **522d.**

= *antaegon* (Boisduval) *LYCAENA*. Ann. Soc. Ent. France, (2)10: 295 (1852). TL — "California". HT apparently in USNM [see **Note 22**].

= *cottlei* (F. Grinnell) *RUSTICUS*. J. Ent. Zool. (Pomona Coll.), 8: 83 (1916). TL — Baker's Beach, San Francisco, California. HT in AMNH.

= ab. "labecula" (Watson and W. P. Comstock) *PLEBEIUS*. Bull. American Mus. Nat. Hist., 42: 457 (1920). TL — San Francisco, California. HT in AMNH.

= ab. "kelseyi" (W. S. Wright) *PLEBEIUS*. Trans. San Diego Soc. Nat. Hist., 6: 29 (1930). TL — San Diego Co., California. HT in San Diego Mus. Nat. Hist.

4. **lupini** (Boisduval) *LYCAENA*. Ann. Soc. Ent. Belgique, 12: 46 (1869). TL — "southern California". HT apparently in USNM [see **Note 22**].

a. **l. lupini** (Boisduval) *LYCAENA*. Ann. Soc. Ent. Belgique, 12: 46 (1869). TL — "southern California". HT apparently in USNM [see **Note 22**]. **523a.**

= ab. "immaculata" (F. H. Chermock) *PLEBEIUS*. Bull. Brooklyn Ent. Soc., 24: 20 (1929). TL — Gold Lake dist., Sierra Co., California. HT in AME.

b. **l. monticola** (Clemence) *RUSTICUS*. Canadian Ent., 41: 38 (1909). TL — Pasadena, California. HT in LACM. **523b.**

= ab. "pallida" (Gunder) *PLEBEIUS*. Ent. News, 36: 3 (1925). TL — Cajon Pass, San Bernardino Mtns., San Bernardino Co., California. HT in AMNH.

= ab. "malcolmi" (Gunder) *PLEBEIUS*. Ent. News, 36: 195 (1927). TL — Ridge Route, Los Angeles Co., California. HT in AMNH.

= ab. "montanus" (Gunder) *PLEBEIUS*. Bull. Brooklyn Ent. Soc., 24: 326 (1929). TL — Cajon Pass, San Bernardino Co., California. HT in AMNH.

= ab. "angelus" (Gunder) *PLEBEIUS*. Bull. Brooklyn Ent. Soc., 24: 326 (1929). TL — Los Angeles, California. HT may be in AMNH or in LACM.

c. **l. chlorina** (Skinner) *LYCAENA*. Ent. News, 13: 15 (1902). TL — Tehachapi, California. HT in CM. **523c.**

= *carolyna* (J. A. Comstock) *PLEBEIUS*. Bull. S. California Acad. Sci., 21: 46 (1922). TL — Tehachapi Mtns., California. HT in LACM.

5. **neurona** (Skinner) *LYCAENA*. Ent. News, 13: 15 (1902). TL — Doble, San Bernardino Co., California. HT in CM. **524.**

Genus CLXIX: **Vacciniina** Tutt

Nat. Hist. Brit. Butts., 3: 154 (1909). Type-species by original designation

Papilio optilete Knoch, Bietr. Insektengesch., 1: 76 (1781) [see **Note 403**].

*1. **optilete** (Knoch) *PAPILIO.* Beitr. Insektengesch., 1: 76 (1781). TL — "Europe". Type probably lost [see **Note 75**].

a. **o. yukona** (Holland) *LYCAENA.* Ent. News, 11: 416-417 (1900). TL — mtns. between Mission and Forty-Mile Creeks, Alaska. ST's in CM. 525a.

Genus CLXX: **Agriades** Hübner

Verz. bekannt. Schmett., (5): 68 [1819]. Type-species by designation of I. C. Z. N. under Plenary Powers (Op. 173, 1946) *Papilio glandon* de Prunner, Lepid. Pedemont: 76 (1798).

= *Latiorina* Tutt, Nat. Hist. British Butts., 3: 155 (1909). Type-species by designation of I. C. Z. N. under Plenary Powers (Op. 173, 1946) *Papilio glandon* de Prunner, Lepid. Pedemont: 76 (1798).

1. **franklinii** (Curtis) *POLYOMMATUS. in* Ross, 2nd Voy. Search Northwest Pass.: lxix (1835). TL — "Arctic America". Loc. of type not known (lost?) [see **Note 404**].

a. **f. franklinii** (Curtis) *POLYOMMATUS. in* Ross, 2nd Voy. Search Northwest Pass.: lxix (1835). TL — "Arctic America". Loc. of type not known (lost?) [see **Note 404**]. 526a.

= *suttoni* (Holland) *LYCAENA.* Butt. Book., rev. ed.: 269 (1931). TL — Southampton Island, Northwest Territories. ST's in CM.

b. **f. lacustris** (T. N. Freeman) *PLEBEIUS.* Canadian Ent., 71: 180 (1939). TL — Norway H ouse, Manitoba. HT in CNC. 526b.

c. **f. bryanti** (Leussler) *PLEBEIUS.* Bull. Brooklyn Ent. Soc., 30: 58 (1935). TL — Black Mt., 30 mi. SW Aklavik, Northwest Territories. HT in AMNH. 526c.

= ab. "kohlsaati" (Gunder) *PLEBIEUS.* Pan-Pac. Ent., 8: 127 (1932). TL — Mt. McKinley Natl. Park, Alaska. HT in AMNH.

d. **f. megalo** (McDunnough) *PLEBEIUS.* Candian Ent., 59: 161 (1927). TL — Mt. McLean, Lillooet, British Columbia. HT in CNC. 526d.

e. **f. rustica** (W. H. Edwards) *LYCAENA.* Proc. Ent. Soc. Philadelphia, 4: 203-204 (1865). TL — "Pikes Peak", restricted to vic. Empire, Clear Creek Co., Colorado by F. M. Brown, Trans. American Ent. Soc., 96: 404 (1970). LT in FMNH, designated by F. M. Brown, Trans. American Ent. Soc., 96: 406 (1970). 526e.

f. **f. podarce** (C. and R. Felder) *LYCAENA.* Reise . . . Novara, Lepid. Rhop., 2: 282 [1865]. TL — "California". Loc. of type not known (BM?). 526f.

= *tehama* (Reakirt) *LYCAENA.* Proc. Acad. Nat. Sci. Philadelphia, [1866]: 246 (1866). TL — "California". Possible ST's in FMNH.

= *cilla* (Behr) *LYCAENA.* Proc. California Acad. Nat. Sci., 3: 281 (1867). TL — headwaters of Tuolumne River, California. Type lost (destroyed in 1906 earthquake and fire).

= *nestos* (Boisduval) *LYCAENA.* Ann. Soc. Ent. Belgique, 12: 50 (1869). TL — "Oregon". HT apparently in USNM [see **Note 22**].

Family **RIODINIDAE** Grote

Mitt. Roemer-Mus. Hildesheim, (1): 1 (1895).

= Erycinidae Swainson, Phil. Mag., (2)1: 185 (1827) [see **Note 405**].

= Nemeobiidae H. W. Bates, J. Linnaean Soc. London, (Zool.), 9:412 (1868) (as "Nemeobiinae).

= Lemoniidae W. F. Kirby, Cat. diurn. Lepid.: 282 (1871).

Subfamily **Euselasiinae** W. F. Kirby

Cat. diurn. Lepid.: 294 (1871).
= Eurygoninae H. W. Bates, J. Linnaean Soc. London, (Zool.), 9: 370 (1867). Name based on junior synonym.

Genus CLXXI: **Euselasia** Hübner

Verz. bekannt. Schmett., (2): 24 [1819]. Type-species by designation of Scudder, Proc. American Acad. Arts Sci., 10: 175 (1875) *Euselasia gelaena* Hübner, Verz. bekannt. Schmett., (2): 24 [1819] (*Papilio gelon* Stoll, Aanhangs. Werk Uitl. Kapellen Pieter Cramer: 23 [1787]).
= *Psalidopteris* Hübner, Zutr. z. Samml. exot. Schmett., 2: 17 [1823]. Type-species by designation of Scudder, Proc. American Acad. Arts Sci., 10: 258 (1875) *Psalidopteris nycha* Hübner, Zutr. z. Samml. exot. Schmett., 2: 17 [1823] (=*Hesperia thuycidides* Fabricius, Ent. Syst., 3: 323; 1793) [see **Note 406**].
= *Eurygona* Boisduval, Hist. Nat. Ins., Consid. gén., 1 (Lepid.): pl. 3, fig. 2; pl. 21, fig. 3 [1836]. Type-species by designation of Scudder, Proc. American Acad. Arts Sci., 10: 175 (1875) *Eurygona phoedica* Boisduval, Hist. Nat. Ins., Consid. gén., 1 (Lepid.): pl. 21, fig. 3 [1836].

*1. **abreas** (W. H. Edwards) *EURYGONA*. Trans. American Ent. Soc., 9: 3 (1881). 527.
TL — "Arizona", very doubtful (see F. M. Brown, Trans. American Ent. Soc., 94: 114-115; 1968). Type lost [see **Note 407**].
= *?sergia* (Godman and Salvin) *EURYGONA*. Biol. Cent.-Americana, Lepid. Rhop., 1: 367-368 (1885). TL — "Guatemala, Costa Rica, Panama". ST's in BM [see **Note 407**].

Subfamily **Riodininae** Grote

Mitt. Roemer-Mus. Hildesheim, (1): 1 (1895, as Riodinidae) [see **Notes 1** and **000**].
= Erycininae Swainson, Phil. Mag., (2)1: 185 (1827) (as "Erycinidae") [see **Note 1**].
= Lemoniinae W. F. Kirby, Cat. diurn. Lepid.: 282 (1871) (as "Lemoniidae") [see **Note 1**].

Genus CLXXII: **Calephelis** Grote and Robinson

Trans. American Ent. Soc., 2: 310 (1869). Type-species by designation of I. C. Z. N. (1966, Op. 775) *Erycina virginiensis* G. R. Gray, *in* Griffith, Cuvier's Anim. Kingd., 15: 58 (1832) (=*Erycina virginiensis* Guérin-Méneéville, Icon. Ins.: 489 [1831]) [see **Notes 408** and **409**].
= *Lephelisca* Barnes and Lindsey, Ann. Ent. Soc. America, 15: 93 (1922). Type-species by original designation *Erycina virginiensis* Guérin-Ménéville, Icon. Ins.: 489 [1831].

1. **virginiensis** (Guérin-Ménéville) *ERYCINA*. Icon. Ins.: 489 [1831]. TL — 528.
"Georgia". HT apparently in USNM [see **Notes 22, 410, 411** and **412**].
= *pumila* (Boisduval and Leconte) *NYMPHIDIA*. Hist. . .Lepid. . .Amerique Sept.: 131 [1833]. TL — "Georgia". HT in USNM [see **Notes 22** and **412**].
= *louisiana* Holland. Ent. News, 40: 20 (1929). TL — Opelousas, Louisiana. HT in CM.

2. **borealis** (Grote and Robinson) *NYMPHIDIA*. Ann. New York Lyc. Nat. Hist., 529.
8: 351 (1866). TL — nr. Upper Coldenham, Orange Co., New York. Loc. of type not known [see **Note 413**].

3. **nemesis** (W. H. Edwards) *CHARIS*. Trans. American Ent. Soc. 3: 212 (1871). TL — "Arizona", restricted to vic. Tucson, Pima Co., Arizona by F. M. Brown, Trans. American Ent. Soc., 94: 126-127 (1968). HT (?) in CM.
   a. **n. australis** (W. H. Edwards) *CHARIS*. Field and Forest, 3: 87-88 (1877). TL — San Antonio, Bexar Co., Texas. LT in CM, designated by McAlpine, *in* F. M. Brown, Trans. American Ent. Soc., 94: 130 (1968). **530a.**
      = *guadeloupe* (Strecker) *CHARIS*. Lepid. Rhop. Het.: 131 (1878). TL — San Antonio, Bexar Co., Texas. ST's in FMNH [see **Note 414**].
   b. **n. nemesis** (W. H. Edwards) *CHARIS*. Trans. American Ent. Soc., 3: 212 (1871). TL — "Arizona", restricted to vic. Tucson, Pima Co., Arizona by F. M. Brown, Trans. American Ent. Soc., 94: 126-127 (1968). HT(?) in CM. **530b.**
   c. **n. dammersi** McAlpine. J. Res. Lepid., 10: 31-34 (1971). TL — Blythe, Riverside Co., California. HT in LACM. **530c.**
   d. **n. californica** McAlpine. J. Res. Lepid., 10: 34-35 (1971). TL — Riverside, Riverside Co., California. HT in LACM. **530d.**
4. **perditalis** Barnes and McDunnough. Contrib. Nat. Hist. Lepid. N. America, 4: 75-76 (1918). TL — San Benito, Texas. HT in USNM. **531.**
5. **wrighti** Holland. Ann. Carnegie Mus., 20: 5-6 (1930). TL not given; Holland suggests nr. Mendocino, California, but Tilden, Occ. Pap. California Acad. Sci., (118): 30 (1975) suggests oases in southern California deserts. HT in CAS. **532.**
6. **muticum** McAlpine. Bull. Brooklyn Ent. Soc., 32: 43-49 (1937). TL — Willis, Washtenaw Co., Michigan. HT in USNM [see **Note 414**]. **533.**
7. **rawsoni** McAlpine. Bull. Brooklyn Ent. Soc., 34: 75-80 (1939). TL — Kerrville, Kerr Co., Texas. HT in USNM [see **Note 415**]. **534.**
8. **freemani** McAlpine. J. Res. Lepid., 10: 53-55 (1971). TL — Davis Mtns., about 12 min. NW Alpine, Jeff Davis Co., Texas. HT in USNM [see **Note 416**]. **535.**
9. **arizonensis** McAlpine. J. Res. Lepid., 10: 55-58 (1971). TL — Brown Canyon, Boboquivari Mtns., Pima Co., Arizona. HT in USNM. **536.**
10. **dreisbachi** McAlpine. J. Res. Lepid., 10: 61-63 (1971). TL — San Blas, Sinaloa, Mexico. HT in USNM. **537.**

Genus CLXXIII: **Caria** Hübner

Zutr. z. Samml. exot. Schmett., 2: 14 [1823]. Type-species by monotypy *Caria colubris* Hübner, Zutr. z. Samml. exot. Schmett., 2: 14 [1823] (=*Hesperia plutargus* Fabricius, Ent. Syst., 3: 329; 1793).

*1. **ino** Godman and Salvin. Biol. Cent.-Americana, Lepid. Rhop., 1: 449 (1886). TL — "Ventanas" (ºVilla Corona), Durango, Mexico. ST's in BM. [see **Note 417**].
   a. **i. melicerta** Schaus. Ent. Americana, 6: 18 (1890). TL — Paso de San Juan, Veracruz, Mexico. ST's in USNM [see **Note 418**]. **538a.**

Genus CLXXIV: **Lasaia** H. W. Bates

J. Linnaean Soc. London, 9: 397 [1868]. Type-species by designation of Stichel, Gen. Ins., 112(A): 184-185 (1911) *Papilio meris* Stoll, *in* Cramer, Uitl. Kapellen, 4: 146 [1781] [see **Note 419**].
   = *Talites* Capronnier, Ann. Soc. Ent. Belgique, 17: 20 (1874). Type-species by designation of Hemming, Stylops, 4: 2 (1935) *Papilio meris* Stoll, *in* Cramer, Uitl. Kapellen, 4: 146 [1781].

*1. **sula** Staudinger. Exot. Tagf.: 257 (1888). TL — San Pedro Sula, Honduras. LT in ZMHU, designated by Clench, J. Res. Lepid., 10: 173 (1972).
   a. **s. peninsularis** Clench. J. Res. Lepid., 10: 172-173 (1972). TL — Pisté, Yucatán, Mexico. HT in CM [see **Note 420**]. **539a.**

Genus CLXXV: **Melanis** Hübner

Verz. bekannt. Schmett., (2): 25 [1819]. Type-species by designation of Scudder, Proc. American Acad. Arts Sci., 10: 214 (1875) *Papilio melander* Stoll, *in* Cramer, Uitl. Kapellen, 4: 89 [1780].

= ‡*Limnas* Boisduval, Hist. Nat. Ins., Spec. gén., 1 (Lepid.): pl. 20, fig. 1 [1836]. Type-species by monotypy *Limnas pixe* Boisduval, Hist. Nat. Ins., Spec. gén., 1 (Lepid.): pl. 20, fig. 1 [1836]. Preoccupied by *Limnas* Hübner, Samml. exot. Schmett., 1: pl. [29] [1806].

= *Lymnas* Blanchard, Hist. Nat. Ins., 3: 464 (1840). Type-species by original designation *Hesperia electron* Fabricius, Ent. Syst., 3: 321 (1793) (=*Papilio iarbas* Fabricius, Mantissa Ins., 2: 83; 1787) [see **Note 421**].

= ‡*Erchia* Walker, List. Spec. Lepid. Ins. British Mus., 2: 357 (1854). Type-species by monotypy *Erchia extranea* Walker, List. Spec. Lepid. Ins. British Mus., 2: 357 (1854) (=*Limnas barca* Hewitson, Ill. exot. Butts., 1: [120]; 1853). Preoccupied by *Erchia* Walker, List. Spec. Lepid. Ins. British Mus., 2: 321 (1854), accorded precedence by W. F. Kirby, Syn. Cat. Lepid. Het., 1: 410 (1892).

= *Pseuderchia* W. F. Kirby, Syn. Cat. Lepid. Het., 1: 410 (1892). Type-species, as replacement name, *Erchia extranea* Walker, List. Spec. Lepid. Ins. British Mus., 2: 321 (1854) (=*Limnas barca* Hewitson, Ill. exot. Butts., 1: [120]; 1853).

1. **pixe** (Boisduval) *LIMNAS.* Hist. Nat. Ins., Spec. gén., 1 (Lepid.): pl. 20, fig. 1 [1836]. TL not stated (Guatemala?). Loc. of type not known (MNHN, USNM?). **540.**

= f. "gynaeceas" (Godman and Salvin) *LIMNAS.* Ann. Mag. Nat. Hist., (6)3: 346 (1889). TL — Cuesta de Misantla, Mexico. HT in BM.

Genus CLXXVI: **Emesis** Fabricius

Mag. f. Insektenk. (Illiger), 6: 287 (1807). Type-species by designation of Westwood, Gen. diurn. Lepid., 2: 421, 446 [1851] *Hesperia ovidius* Fabricius, Ent. Syst., 3: 320 (1793) (=*Papilio cereus* Linnaeus, Syst. Nat., ed. 12, 1(2): Errata; 1767).

= *Polystichtis* Hübner, Verz. bekannt. Schmett., 2: 18 [1819]. Type-species by designation of Scudder, 4th Ann. Rept. Peabody Acad. Sci., [1871]: 49 (1872) *Papilio cereus* Linnaeus, Syst. Nat., ed. 12, 1(2): Errata (1767) [see **Note 422**].

= *Aphacitis* Hübner, Vez. bekannt. Schmett., 2: 19 [1819]. Type-species by designation of Scudder, Proc. American Acad. Arts Sci., 10: 116 (1875) *Papilio dyndima* Cramer, Uitl. Kapellen, 3: 142 [1780] (=*Papilio lucinda* Cramer, Uitl. Kappellen, 1: 3 [1775]).

= *Tapina* Billberg, Enum. Ins. Mus. Billberg: 81 (1820). Type-species, as replacement name, *Hesperia ovidius* Fabricius, Ent. Syst., 3: 320 (1793) (=*Papilio cereus* Linnaeus, Syst. Nat., ed. 12, 1(2): Errata; 1767). Proposed to replace *Emesis.*

= *Nimula* Blanchard, Hist. Nat. Ins., 3: 465 (1840). Type-species by original designation *Papilio lucinda* Cramer, Uitl. Kapellen, 1: 3 [1775].

= *Nelone* Boisduval, Consid. Lépid. Guatemala: 23 (1870). Type-species by designation of Scudder, Proc. American Acad. Arts Sci., 10: 225 (1875) *Papilio fatima* Cramer, Uitl. Kapellen, 3: 141 [1780] (=*Papilio cereus* Linnaeus, Syst. Nat., ed. 12, 1(2): Errata; 1767).

*1. **zela** Butler. Ann. Mag. Nat. Hist., (4)5: 364 (1870). TL — "Venezuela; Mexico". ST's in BM.

a. **z. cleis** (W. H. Edwards) *LEMONIAS.* Papilio, 2: 137 (1882). TL — vic. Fort **541a.**

Grant, SW of Mt. Graham, Graham Co., Arizona. LT in CM, designated by F. M. Brown and Clench, *in* F. M. Brown, Trans. American Ent. Soc., 94: 134-135 (1968) [see **Note 423**].

2. **ares** (W. H. Edwards) *LEMONIAS*. Papilio, 2: 136-137 (1882). TL — vic. Fort Grant., SW of Mt. Graham, Graham Co., Arizona. LT in CM, designated by F. M. Brown and Clench, *in* F. M. Brown, Trans. American Ent. Soc., 94: 131-133 (1968). **542.**
3. **emesia** (Hewitson) *SYMMACHIA*. Exot. Butts., 5: [16] (1867). TL — "Nicaragua". HT in BM. **543.**

Genus CLXXVII: **Apodemia** C. and R. Felder

Reise . . . Fregatte Novara, Lepid. Rhop., (2): 302 [1865]. Type-species by designation of Stichel, Gen. Ins., 112B: 285, 287 (1911) *Lemonias mormo* C. and R. Felder, Wiener Ent. Monats., 3: 271 (1859).

= *Chrysobia* Boisduval, Ann. Soc. Ent. Belgique, 12: 52 (1869). Type-species by original designation *Chrysobia mormonia* Boisduval, Ann. Soc. Ent. Belgique, 12: 52 (1869) (=*Lemonias mormo* C. and R. Felder, Wiener Ent. Monats., 3: 271; 1859).

= ‡*Polystigma* Godman and Salvin, Biol. Cent.-Americana, Lepid. Rhop., 1: 469 [1886]. Type-species by monotypy *Chrysophanus nais* W. H. Edwards, Trans. American Ent. Soc., 5: 291-292 (1876) [see **Note 424**].

1. **mormo** (C. and R. Felder) *LEMONIAS*. Wiener Ent. Monats., 3: 271 (1859). TL — "Great Salt Lake", usually attributed to Utah, but here restricted to near Pyramid Lake, Washoe Co., Nevada [see **Note 240**]. Loc. of type not known (BM?).

   a. **m. mormo** (C. and R. Felder) *LEMONIAS*. Wiener Ent. Monats., 3: 271 (1859). TL — "Great Salt Lake", usually attributed to Utah, but here restricted to near Pyramid Lake, Washoe Co., Nevada [see **Note 240**]. Loc. of type not known (BM?). **544a.**

      = *dumeti* (Behr) *NEMEOBIUS*. Proc. California Acad. Nat. Sci., 3: 178 (1865). TL — "Chaparral areas of California". Type destroyed in earthquake and fire, 1906.

      = *mormonia* (Boisduval) *CHRYSOBIA*. Ann. Soc. Ent. Belgique, 12: 52 (1869). TL — "California". HT apparently in USNM [see **Note 22**].

   b. **m. langei** J. A. Comstock. Bull. S. California Acad. Sci., 37: 129-131 (1938). TL — Antioch, Contra Costa Co., California. HT in LACM. **544b.**

   c. **m. cythera** (W. H. Edwards) *LEMONIAS*. Trans. American Ent. Soc., 3: 345-346 (1873). TL — "Arizona", restricted and corrected to 9 mi. W Lone Pine, Inyo Co., California by F. M. Brown, Trans. American Ent. Soc., 94: 116 (1968). NT in California Ins. Surv., designated by Opler, *in* F. M. Brown, Trans. American Ent. Soc., 94: 119 (1968). **544c.**

   d. **m. duryi** (W. H. Edwards) *LEMONIAS*. Papilio, 2: 47-48 (1882). TL — Organ Mtns., 5 mi. E Mesilla, [Dona Ana Co.], New Mexico. LT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 94: 121 (1968) [see **Notes 425** and **426**]. **544d.**

   *e. **m. mejicanus** (Behr) *NEMEOBIUS*. Proc. California Acad. Nat. Sci., 3: 179 (1865). TL — mountains S of Mazatlán, Sinaloa, Mexico. Type destroyed in earthquake and fire, 1906. **544e.**

      = *sonorensis* C. and R. Felder. Reise . . . Fregatte Novara, Lepid. Rhop., (2): 303 [1865]. TL — "Sonora". Loc. of type not known (BM?).

   f. **m. tuolumnensis** Opler and Powell. J. Lepid. Soc., 15: 159-160 (1962). TL — Grand Canyon of the Tuolumne, Yosemite Natl. Park, Tuolumne Co., California. HT in CAS. **544f.**

   g. **m. virgulti** (Behr) *NEMEOBIUS*. Proc. California Acad. Nat. Sci., 3: 178 (1865). TL — nr. Los Angeles, California. Type destroyed in San **544g.**

Francisco earthquake and fire, 1906 [see **Note 427**].

h. **m. deserti** Barnes and McDunnough. Contrib. Nat. Hist. Lepid. N. America, 4: 75 (1918). TL — La Puerta Valley, San Diego Co., California. HT in USNM. **544h.**

*i. **m. dialeuca** Opler and Powell. J. Lepid. Soc., 15: 167-168 (1962). TL — Sierra San Pedro Martir, 5 mi. NE La Encantada, Baja California Norte, Mexico. HT in CAS [see **Note 428**]. **544i.**

2. **multiplaga** Schaus. Proc. U. S. Natl. Mus., 24: 404 (1902). TL — Rinconada, [Puebla], Mexico. HT in USNM. **545.**

3. **hepburni** Godman and Salvin. Biol. Cent.-Americana, Lepid. Rhop., 1: 468 [1886]. TL — Pinos Altos, Chihuahua, Mexico. HT in BM. **546.**

4. **palmerii** (W. H. Edwards) *LEMONIAS.* Trans. American Ent. Soc., 3: 195 (1870). TL — "Utah", restricted to St. George, Washington Co., Utah by F. M. Brown, Trans. American Ent. Soc., 94: 121 (1968). HT in CM. **547.**

= f. "marginalis" (Skinner) *LEMONIAS,* Ent. News, 31: 175 (1920). TL — Acme, California. ST's in CM.

5. **walkeri** Godman and Salvin. Bio. Cent.-Americana, Lepid. Rhop., 1: 468 [1886]. TL — Acapulco, [Guerrero], Mexico. HT in BM. **548.**

6. **phyciodoides** Barnes and Benjamin. Contrib. Nat. Hist. Lepid. N. America, 5: 99-100 (1924). TL — Chiricahua Mtns., [Cochise Co.], Arisona. HT in USNM. **549.**

7. **nais** (W. H. Edwards) *CHRYSOPHANUS.* Trans. American Ent. Soc., 5: 291-292 (1876). TL — "Southern California" and Prescott, Arizona, restricted to Prescott, Arizona by F. M. Brown, Trans. American Ent. Soc., 94: 124 (1968). LT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 94: 125-126 (1968). **550.**

8. **chisosensis** H. A. Freeman. J. Lepid. Soc., 18: 75-77 (1964). TL — Chisos Mtns., Big Bend Natl. Park, Texas. HT in AMNH. **551.**

Family **LIBYTHEIDAE** Boisduval

in Roret's Suites á Buffon, Spec. Gén. Lépid., 1: 167 (1836, as "Libytheides").

Genus CLXXVIII: **Libytheana** Michener

American Mus. Novitates, (1232): 1 (1943). Type-species by original designation *Libythea bachmanii* Kirtland, American J. Sci. (Silliman), (2)13: 336-337 (1852) [see **Note 429**].

1. **bachmanii** (Kirtland) *LIBYTHEA.* American J. Sci. (Silliman), (2)13: 336-337 (1852). TL — "northern Ohio". Type probably lost.

a. **b. bachmanii** (Kirtland) *LIBYTHEA.* American J. Sci. (Silliman), (2)13: 336-337 (1852). TL — "northern Ohio". Type probably lost. **552a.**

= f. "kirtlandi" (Field) *LIBYTHEA.* Bull. Univ. Kansas, Biol. ser., 39: 131 (1938). TL not stated (Kansas?). HT in USNM.

b. **b. larvata** (Strecker) *LIBYTHEA.* Lepid. Rhop. Het.: 130 [1878]. TL — San Antonio, Texas. ST's in FMNH. **552b.**

= f. "streckeri" (Field) *LIBYTHEA.* Bull. Univ. Kansas, Biol. ser., 39: 132 (1938). TL not stated (Texas?). HT in USNM.

*2. **carinenta** (Cramer) *PAPILIO.* Uitl. Kapellen, 2: 18 [1777]. TL — "Surinam". Type may be lost [see **Notes 7** and **430**].

a. **c. mexicana** Michener. American Mus. Novitates, (1232): 1-2 (1943). TL — Jalapa, Mexico. HT in AMNH. **553a.**

*3. **motya** (Boisduval and Leconte) *LIBYTHEA.* Hist. . . Lepid. Amerique sept.: pl. 64 [1833]. TL not stated, but "Georgia" implied by Abbot plate. Type did not exist, name based solely on Abbot plate [see **Note 431**]. **554.**

Family **HELICONIIDAE** Swainson

Phil. Mag. (n. ser.), 1: 187 (as "Heliconidae") (1827).
= Argynitae Chenu and Lucas, Encyc. Hist. nat. Pap. diurn.: 66 (1833), in part.

Subfamily **Heliconiinae** Swainson

Phil. Mag. (n. ser.), 1: 187 (as "Heliconidae") (1827) [see **Note 1**].
= Dioninae Stichel, Gen. Ins., 63: 1-38 (1907).

Genus CLXXIX: **Agraulis** Boisduval and Leconte

Hist. Lepid. Amerique sept.: 142 [1833]. Type-species by monotypy *Papilio vanillae* Linnaeus, Syst. Nat., ed. 10, 1: 482 (1758) [see **Note 432**].

*1. **vanillae** (Linnaeus) *PAPILIO*. Syst. Nat., ed. 10, 1: 482 (1758). TL — "America". Loc. of type not known (Uppsala?).
= *passiflorae* (Fabricius) *PAPILIO*. Ent. Syst., 3: 60 (1893). TL — "America". Type probably lost.

a. **v. nigrior** Michener. American Mus. Novitates, (1215): 1-2, 7 (1942). TL — Upper Matecumbe Key, Florida, HT in AMNH. **555a.**

b. **v. incarnata** (Riley) *DIONE*. Entomologist, 59: 243-244 (1926). TL — nr. Durango, Durango, Mexico. HT in BM. **555b.**
= ab. "comstocki" (Gunder) *DIONE*. Ent. News, 36: 5-6 (1925). TL — Monrovia, Los Angeles Co, California. HT in LACM.
= ab. "fumosus" (Gunder) *DIONE*. Ent. News, 38: 137 (1927). TL — Los Angeles, Los Angeles Co., California. HT in AMNH.
= ab. margineapertus" (Gunder) *DIONE*. Canadian Ent., 60: 163 (1928). TL — Los Angeles, California. HT in AMNH.
= ab. "hewlettae" (Gunder) *DIONE*. Bull. Brooklyn Ent. Soc., 24: 327-328 (1930). TL — Ontario, Riverside Co., California. HT in AMNH.

Genus CLXXX: **Dione** Hübner

Verz. bekannt. Schmett., (2): 31 [1819]. Type-species by designation of Scudder, Proc. American Acad. Arts Sci., 10: 157 (1875) *Papilio juno* Cramer, Uitl. Kapellen, 3: 38 [1779].

*1. **moneta** Hübner. Samml. exot. Schmett., 2: pl. [20] [1825]. TL not given, but South American from figure. Loc. of type not known [see **Note 9**].

a. **m. poeyi** Butler. Ann. Mag. Nat. Hist., (4)12: 227 (1873). TL — Oaxaca, Mexico. HT in BM. [see **Note 433**]. **556a.**

Genus CLXXXI: **Dryadula** Michener

American Mus. Novitates, (1197): 4 (1942). Type-species by original designation *Papilio phaetusa* Linnaeus, Syst. Nat., ed. 10, 1: 478 (1758) [see **Note 434**].

1. **phaetusa** (Linnaeus) *PAPILIO*. Syst. Nat., ed. 10, 1: 458 (1758). TL — "Indiis". Type probably in Museum Ludovicae Ulrica [see **Note 435**]. **557.**

Genus CLXXXII: **Dryas** Hübner

Samml. exot. Schmett., 1: pls. [43], [44] [1807]. Type-species by designation of

Hemming, Entomologist, 66: 197 (1933) *Papilio iulia* Fabricius, Syst. Ent.: 509-510 (1775).

= *Colaenis* Hübner, Verz. bekannt. Schmett., (2): 32 [1819]. Type-species by designation of Scudder, Proc. American Acad. Arts Sci., 10: 146 (1875) *Papilio iulia* Fabricius, Syst. Ent.: 509-510 (1775).

*1. **iulia** (Fabricius) *PAPILIO.* Syst. Ent.: 509-510 (1775). TL — "America". Loc. of type not known (Kiel, Copenhagen?) [see **Note 436**].

= *alcionea* (Cramer) *PAPILIO.* Uitl. Kapellen, 3: 38 [1779]. TL — "Surinam". Type probably lost [see **Note 437**].

= *juncta* W. P. Comstock. Sci. Surv. Porto Rico and Virgin Is. (New York Acad. Sci.), 12(4): 441-443 (1944). TL — Adjuntas, Puerto Rico. HT in AMNH.

a. **i. largo** Clench. J. Lepid. Soc., 29: 230 (1975). TL — Key Largo, Monroe Co., Florida. HT in CM [see **Note 438**]. **558a.**

b. **i. moderata** (Riley) *COLAENIS.* Entomologist, 59: 241-242 (1926). TL — "Honduras". Loc. of type not known (? ZMHU, a Stichel ab.). [see **Notes 439** and **440**]. **558b.**

Genus CLXXXIII: **Eueides** Hübner

Verz. bekannt. Schmett., (1): 11 (1816). Type-species by designation of Scudder, Proc. American Acad. Arts Sci., 10: 169 (1875) *Nereis dianasa* Hübner, Samml. exot. Schmett., 1: pl. [8] [1806] [see **Note 441**].

= *Semelia* Erichson, *in* Schomburgk, Reise Britisch-Guiana, 3: 596 (1848). Type-species by monotypy *Papilio lybia* Fabricius, Syst. Ent.: 460 (1775). Preoccupied by *Semelia* Doubleday, List. Spec. Lepid. Ins. British Mus., 1: 64 (1844).

*1. **isabella** (Stoll) *PAPILIO. in* Cramer, Uitl. Kapellen, 4: 117 [1781]. TL — "Surinam". Type probably lost [see **Notes 15** and **443**].

a. **i. zorcaon** Reakirt. Proc. Acad. Nat. Sci. Philadelphia, [1866]: 243 (1866). TL — "Mexico (nr. Veracruz), Guatemala and Honduras". Probable ST's in FMNH. **559a.**

Genus CLXXXIV: **Heliconius** Kluk

Zwierz. Hist. Nat. Pocz. Gospod, 4: 82 (1802). Type-species by designation of Hemming, Entomologist, 66: 223 (1933) *Papilio charitonius* Linnaeus, Syst. Nat., ed. 12, 1: 757 (1767) [see **Note 443**].

= ‡*Heliconius* Latreille, Nouv. Dict. Hist. Nat., 24: 185, 199 [1804]. Type-species by designation of Hemming, Entomologist, 66: 198 (1933) *Papilio charithonia,* Linnaeus, Syst. Nat., ed. 12, 1: 757 (1767). Preoccupied by *Heliconius* Kluk, Zwierz. Hist. Nat. Pocz. Gospod, 4: 82 (1802).

= ‡*Migonitis* Hübner, Verz. bekannt. Schmett., (2): 12 (1816). Type-species by designation of Scudder, Proc. American Acad. Arts Sci., 10: 218 (1875) *Papilio erato* Linnaeus, Syst. Nat., ed. 10, 1: 467 (1758). Preoccupied by *Migonitis* Rafinesque, Anal. Nat.: 147 (1815).

= *Sunias* Hübner, Verz. bekannt. Schmett., (1): 12 (1816). Type-species by designation of Scudder, Proc. American Acad. Arts Sci., 10: 271 (1875) *Papilio melpomene* Linnaeus, Syst. Nat., ed. 10, 1: 467 (1758).

= *Sicyonia* Hübner, Verz. bekannt. Schmett., (1): 13 (1816). Type-species by designation of Scudder, Proc. American Acad. Arts Sci., 10: 268 (1875) *Papilio rhea* Cramer, Uitl. Kapellen, 1: 85 [1775] *(=Papilio sara* Fabricius, Ent. Syst., 3: 167; 1793). Name suppressed by I. C. Z. N. (Op. 382, 1956) under Plenary Powers [see **Note 444**].

= *Ajantis* Hübner, Verz. bekannt. Schmett., (1): 13 (1816). Type-species by

designation of Scudder, Proc. American Acad. Arts Sci., 10: 106 (1875) *Papilio sapho* Drury, Ill. Nat. Hist., 3: index et 54 [1782].

= *Apostraphia* Hübner, Verz. bekannt. Schmett., (1): 13 (1816). Type-species by designation of Scudder, Proc. American Acad. Arts Sci., 10: 116 (1875) *Papilio charithonia* Linnaeus, Syst. Nat., ed. 12, 1: 757 (1767). Name suppressed by I. C. Z. N. (Op. 382, 1956) under Plenary Powers.

= *Laparus* Billberg, Enum. Ins. Mus. Billberg.: 77 (1820). Type-species by designation of Hemming, Entomologist, 67: 37 (1934) *Papilio doris* Linnaeus, Mant. Plant., 2: 536 (1771).

= *Crenis* Hübner, Index exot. Lepid.: [2] (1821). Type-species by monotypy *Crenis brylle* Hübner, Index exot. Lepid.: [2] (1821) (=*Papilio doris* Linnaeus, Mant. Plant., 2: 536 (1771).

= *Phlogris* Hübner, Samml. exot. Schmett., 2: pl. [5] [1825]. Type-species by monotypy *Papilio melpomene* Linnaeus, Syst. Nat., ed. 10, 1: 467 (1758).

= ‡*Blanchardia* Buchecker, Syst. Ent., 2: pl. 51 (1880). Type-species by monotypy *Heliconia [sic.] choarina* Hewitson, Ent. Mo. Mag., 9: 93 (1872) (=*Heliconia [sic] hecuba* Hewitson, Ill. exot. Butts., 2: [25] [1858]). Preoccupied by *Blanchardia* Castelnau, Philadelphia Cent. Exped. 1876, Off. Rec.: 47 (1875).

*1. **charitonius** (Linnaeus, emendation) *PAPILIO*. Syst. Nat., ed. 12, 1: 757 (1767). TL — "America", but probably from St. Thomas, Virgin Islands, according to W. P. Comstock and F. M. Brown, American Mus. Novitates, (1467): 10-11 (1950). HT in Linnaean Soc. London [see **Note 445**].

a. **c. tuckeri** W. P. Comstock and F. M. Brown. American Mus. Novitates, (1467): 15-16 (1950). TL — Winter Park, Florida, HT in AMNH. **560a.**

b. **c. vazqueqae** W. P. Comstock and F. M. Brown, American Mus. Novitates, (1467): 16 (1950). TL — Campeche, Campeche, Mexico. HT in AMNH. **560b.**

*2. **erato** (Linnaeus) *PAPILIO*. Syst. Nat., ed. 10, 1: 467 (1758). TL — "Indiis". Loc. of type not known (Uppsala, Linnaean Soc. London?) [see **Note 446**].

a. **e. petiverana** (Doubleday) *HELICONIA*. Gen. diurn. Lepid., 1: 103 1847. TL — "Mexico, Honduras". ST's in BM. **561a.**

= *demophoon* (Ménétriés) *HELICONIA*. Cat. Lepid. Ins. Mus. Petropolitana, 1: 86 (1855). TL not stated. Type may be in Leningrad.

Family **NYMPHALIDAE** Swainson

Phil. Mag. (n. ser.), 1: 187 (1827).

Subfamily **Argynninae** Blanchard

in Castelnau, Hist. Nat. Ins . . ., 3: 430 (1840).

Genus. CLXXXV: **Euptoieta** Doubleday

Gen. diurn. Lepid., 1: 168 [1848]. Type-species by designation of Scudder, 4th Ann. Rept. Peabody Acad. Sci., [1871]: 43 (1872), *Papilio claudia* Cramer, Uitl. Kapellen, 1: 109 [1775]. [see **Note 447**].

1. **claudia** (Cramer) *PAPILIO*. Uitl. Kapellen, 1: 109 [1775]. TL — "Jamaica". Loc. of type not known [see **Note 448**]. **562.**

= *daunius* (Herbst) *PAPILIO*. Natursyst. Aller Bekannt. In-U. Ausländischen Ins., Der Schmett., 9: 184-185 (1798). TL — "East Indies". Type may be lost [see **Note 449**].

= *dodgei* Gunder. Ent. News, 38: 135-136 (1927). TL — nr. Schriber, Dodge Co., Nebraska. HT may be in CAS.

= ab. "fumosa" Field. J. Ent. & Zool., 28: 22-23 (1936). TL — Hatfield, Arkansas. HT may be in USNM.

= ab. "albaclaudia" Field. J. Ent. & Zool., 28: 23 (1936). TL — Miami, Dade Co., Florida. HT in USNM.

*2. **hegesia** (Cramer) *PAPILIO.* Uitl. Kapellen, 3: 175 [1780]. TL — "New York and Jamaica". ST's may be in BM [see **Note 450**].

= *columbina* (Fabricius) *P[APILIO].* Ent. Syst., 3: 148 (1793). TL — "America". Type probably represented only by Jones' figure.

a. **h. hoffmanni** W. P. Comstock. Sci. Surv. Porto Rico & Virgin Isls., 12: 446 (1944). TL — Escuiñapa, Sinaloa, Mexico. HT in AMNH. 563a.

Genus CLXXXVI: **Speyeria** Scudder

4th Ann. Rept. Peabody Acad. Sci., [1871]: 44 (1872). Type-species by original designation *Papilio idalia* Drury, Ill. Nat. Hist., 1: index et 25 [1773].

= *Semnopsyche* Scudder. Bull. Buffalo Soc. Nat. Sci., 2: 238, 258 (1875). Type-species by original designation *Papilio diana* Cramer, Uitl. Kapellen, 2: 4, 148 [1775].

1. **diana** (Cramer) *PAPILIO.* Uitl. Kapellen, 2: 4, 148 [1775]. TL — Jamestown, James City Co., Virginia, designated by dosPassos and Grey, American Mus. Novitates, (1370): 6 (1947). HT in BM. 564.

2. **cybele** (Fabricius) *PAPILIO.* Syst. Ent.: 516 (1775). TL — New York, New York, designated by dosPassos and Grey, American Mus. Novitates, (1370): 6 (1947). HT in BM.

a. **c. cybele** (Fabricius) *PAPILIO.* Syst. Ent.: 516 (1775). TL — New York, New York Co., New York, designated by dosPassos and Grey, American Mus. Novitates, (1370): 6 (1947). HT in BM. 565a.

= *daphnis* (Cramer) *PAPILIO.* Uitl. Kapellen, 1: 89 [1775]. TL — New York, New York Co., New York, designated by dosPassos and Grey, American Mus. Novitates, (1370): 6 (1947). NT in BM, designated by dosPassos and Grey, American Mus. Novitates, (1370): 6 (1947).

= ab. "baal" (Strecker) *ARGYNNIS.* Butt. Moths. N. America: 111 (1878). TL — Toledo, Lucas Co., Ohio. HT in FMNH.

b. **c. novascotiae** (McDunnough) *ARGYNNIS.* Canadian Ent., 67: 19 (1935). TL — White Point Beach, Queens Co., Nova Scotia. HT in CNC. 565b.

c. **c. krautwurmi** (Holland) *ARGYNNIS.* Ann. Carnegie Mus., 20: 255 (1931). TL — Les Cheneaux, Mackinac Co., Michigan. HT in CM. 565c.

d. **c. pseudocarpenteri** (F. and R. Chermock) *ARGYNNIS.* Canadian Ent., 72: (1940). TL — Sand Ridge. Manitoba. HT in CNC. 565d.

e. **c. carpenterii** (W. H. Edwards) *ARGYNNIS.* Trans. American Ent. Soc., 5: 204 (1876). TL — Taos Peak, Taos Co., New Mexico, designated by dosPassos and Grey, American Mus. Novitates, (1370): 7 (1947). LT in CM, designated by dosPassos and Grey, American Mus. Novitates, (1370): 7 (1947). 565e.

f. **c. charlottii** (Barnes) *ARGYNNIS.* Canadian Ent., 29: 39 (1897). TL — Glenwood Springs, Garfield Co., Colorado. HT in USNM. 565f.

g. **c. letona** dosPassos and Grey. American Mus. Novitates, (1297): 1 (1945). TL — City Creek Canyon, Salt Lake City, Salt Lake Co., Utah. HT in AMNH. 565g.

h. **c. pugetensis** F. Chermock and Frechin. Pan-Pac. Ent., 23: 111-112 (1947). TL — Stimson Creek, nr. Belfair, Mason Co., Washington. HT in AMNH. 565h.

i. **c. leto** (Behr) *ARGYNNIS.* Proc. California Acad. Sci., 2: 173 (1862). TL — near Carson City, Ormsby Co., Nevada. NT in CM, designated by dosPassos and Grey, American Mus. Novitates, (1370): 7-8 (1947). 565i.

= *letis* (W. G. Wright) *ARGYNNIS*. Butt. W. Coast: 130 (1905). TL — Sisson, Siskiyou Co., California. HT in CAS.

= *valesinoidesalba* (Reuss) *ACIDALIA*. Deutsche Ent. Zeits., [1926]: 69 (1926). TL not stated. HT in ZMHU.

= ab. "lethe" (Gunder) *ARGYNNIS*. Canadian Ent., 66: 125 (1934). TL — Big Horn Mtns., Wyoming. HT in AMNH.

3. **aphrodite** (Fabricius) *PAPILIO*. Mantissa Ins., 2: 62 (1787). TL — New York, New York Co., New York, designated by dosPassos and Grey, American Mus. Novitates, (1370): 8 (1947). NT in AMNH, designated by dosPassos and Grey, American Mus. Novitates, (1370): 8 (1947).

a. **a. aphrodite** (Fabricius) *PAPILIO*. Mantissa Ins., 2: 62 (1787). TL — New York, New York Co., New York, designated by dosPassos and Grey, American Mus. Novitates, (1370): 8 (1947). NT in AMNH, designated by dosPassos and Grey, American Mus. Novitates, (1370): 8 (1947). **566a.**

= f. "bartschi" (Reiff) *ARGYNNIS*. Psyche, 17: 255 (1910). TL — West Roxbury, Suffolk Co., Massachusetts. HT in MCZ.

= ab. "bakeri" (A. H. Clark) *ARGYNNIS*. Bull. U. S. Natl. Mus., (157): pl. 19, figs. 1-2 (1932). TL — Waynesburg, Stark Co., Ohio. HT in USNM.

b. **a. winni** (Gunder) *ARGYNNIS*. Canadian Ent., 64: 278 (1932). TL — St. Calixte de Kilkenny, Quebec. HT in AMNH. **566b.**

c. **a. alcestis** (W. H. Edwards) *ARGYNNIS*. Trans. American Ent. Soc., 5: 289 (1877). TL — Galena, Jo Daviess Co., Illinois, designated by dosPassos and Grey, American Mus. Novitates, (1370): 8 (1947). LT in CM, designated by dosPassos and Grey, American Mus. Novitates, (1370): 8 (1947). **566c.**

= ab. "suffusa" (Wolcott) *ARGYNNIS*. Ent. News, 27: 98 (1916). TL — bog S of Grand Rapids, Kent Co., Michigan. HT in Ohio St. Univ.

d. **a. manitoba** (F. and R. Chermock) *ARGYNNIS*. Canadian Ent., 72: 83 (1940). TL — Sand Ridge, Manitoba. HT in CNC. **566d.**

= *mayae* dosPassos and Grey. American Mus. Novitates, (1370): 8 (1947). TL — Sand Ridge, Bener Dam L., nr. Kelwood, Manitoba. HT in AMNH. Raising of ab. "mayae" (Gunder).

= ab. "mayae" (Gunder) *ARGYNNIS*. Canadian Ent., 64: 279 (1932). TL — Sand Ridge, Bener Dam L., nr. Kelwood, Manitoba. HT in AMNH.

e. **a. whitehousei** (Gunder) *ARGYNNIS*. Canadian Ent., 64: 279 (1932). TL — Jaffray, British Columbia. HT in AMNH. **566e.**

f. **a. columbia** (Hy. Edwards) *ARGYNNIS*. Pacific Coast Lepid.: [1] (1877). TL — Lahache, British Columbia. LT in AMNH, designated by dosPassos and Grey, American Mus. Novitates, (1370): 9 (1947). **566f.**

g. **a. ethne** (Hemming) *ARGYNNIS*. Entomologist, 66: 276 (1933). TL — Big Horn Mtns., nr. Sheridan, Wyoming, designated by F. M. Brown, Trans. American Ent. Soc., 91: 247 (1965) [for *cypris* W. H. Edwards]. LT in CM, designated by dosPassos and Grey, American Mus. Novitates, (1370): 9 (1947) [same as for *cypris* W. H. Edwards]. Replacement name for *cypris* W. H. Edwards. **566g.**

= ‡*cypris* (W. H. Edwards) *ARGYNNIS*. Canadian Ent., 18: 62-64 (1886). TL — Big Horn Mtns., nr. Sheridan, Wyoming, designated by F. M. Brown, Trans. American Ent. Soc., 91: 247 (1965). LT in CM, designated by dosPassos and Grey, American Mus. Novitates, (1370): 9 (1947). Preoccupied by *Argynnis cypris* Meigen, Syst. Beschreib. Europaischen Schmett., 1: 59 (1828).

h. **a. byblis** (Barnes and Benjamin) *DRYAS*. Bull. S. California Acad. Sci., 25: 91 (1926). TL — White Mtns., Arizona. HT in USNM. **566h.**

4. **idalia** (Drury) *PAPILIO*. Ill. Nat. Hist., 1: index et 25 [1773]. TL — New York, **567.**

New York Co., New York, designated by dosPassos and Grey, American Mus. Novitates, (1370): 9 (1947). NT in AMNH, designated by dosPassos and Grey, American Mus. Novitates, (1370): 9 (1947).

= ‡*astarte* (Fisher) *ARGYNNIS*. Proc. Acad. Nat. Sci. Philadelphia, 10: 179 (1858). TL — Succasunna Plains, nr. Schooley's Mt., Morris Co., New Jersey. HT in FMNH. Preoccupied by *Argynnis astarte* Doubleday, Gen. diurn. Lepid., 1: 181 [1847].

= *ashtaroth* (Fisher) *ARGYNNIS*. Proc. Acad. Nat. Sci. Philadelphia, 11: 352 (1859). TL — Succasunna Plains, nr. Schooley's Mt., Morris Co., New Jersey. HT in FMNH. Replacement name for *A. astarte* Fisher, Proc. Acad. Nat. Sci. Philadelphia, 10: 179 (1858), preoccupied.

= ab. "infumata" (Oberthür) *ARGYNNIS*. Etudes Lepid. Comp., 6: 315 (1912). TL — Newark, Essex Co., New Jersey. HT in USNM.

= ab. "dolli" (Gunder) *ARGYNNIS*. Canadian Ent., 59: 286 (1927). TL — Richmond Hill, Long Island, Queens Co., New York. HT in USNM.

= ab. "pallida" (Eisner) *ARGYNNIS*. Zool. Meded., 24: 124 (1942). TL not stated. HT in RNH, Leiden.

5. **nokomis** (W. H. Edwards) *ARGYNNIS*. Proc. Acad. Nat. Sci. Philadelphia, 14: 221-222 (1862). TL — Sneffels Mtns., Ouray Co., Colorado, designated by dosPassos and Grey, American Mus. Novitates, (1370): 9 (1947) [NB: this may be a spurious locality! See F. M. Brown, Trans. American Ent. Soc., 91: 249-254 (1965)]. NT in AMNH, designated by dosPassos and Grey, American Mus. Novitates, (1370): 9 (1947).

a. **n. nokomis** (W. H. Edwards) *ARGYNNIS*. Proc. Acad. Nat. Sci. Philadelphia, 14: 221-222 (1862). TL — Sneffels Mtns., Ouray Co., Colorado, designated by dosPassos and Grey, American Mus. Novitates, (1370): 9 (1947) [NB: this may be spurious locality!]. NT in AMNH, designated by dosPassos and Grey, American Mus. Novitates, (1370): 9 (1947). **568a.**

= *nigrocaerulea* (W. and T. Cockerell) *ARGYNNIS*. Ent. News, 11: 622 (1900). TL — Sapello Canyon, Beulah, San Miguel Co., New Mexico. HT in USNM.

f. "valesinoidesalba" (Reuss) *ACIDALIA*. Deutsche Ent. Zeits., [1926]: 69 (1926). TL not stated. HT in ZMHU.

= ab. "rufescens" (T. Cockerell) *ARGYNNIS*. Ent. Rec. & Jour. Var., 21: 186 (1909). TL — Sapello Canyon, Beulah, San Miguel Co., New Mexico. HT in USNM.

b. **n. nitocris** (W. H. Edwards) *ARGYNNIS*. Trans. American Ent. Soc., 5: 15-16 (1874). TL — White Mtns., Arizona. HT in CM [see **Note 451**]. **568b.**

c. **n. coerulescens** (Holland) *ARGYNNIS*. Ent. News, 11: 332 (1900). TL — head of Rio Piedras Verdes, Sierra Madre region, Chihuahua, Mexico, designated by dosPassos and Grey, American Mus. Novitates, (1370): 10 (1947). LT in CM, designated by dosPassos and Grey, American Mus. Novitates, (1370): 10 (1947) [see **Note 452**]. **568c.**

d. **n. apacheana** (Skinner) *ARGYNNIS*. Ent. News, 29: 67 (1918). TL — "Arizona". HT in CM [see **Notes 453** and **454**]. **568d.**

= ab. "hermosa" (J. A. Comstock) *ARGYNNIS*. Bull. S. California Acad. Sci., 24: 3 (1925). TL — Round Valley, Inyo Co., California. HT in LACM.

6. **edwardsii** (Reakirt) *ARGYNNIS*. Proc. Ent. Soc. Philadelphia, 6: 137 (1866). TL — Pike's Peak, Teller Co., Colorado, designated by dosPassos and Grey, American Mus. Novitates, (1370): 10 (1947), but F. M. Brown, Trans. American Ent. Soc., 91: 257 (1965) suggests that Empire, Clear Creek Co., Colorado would have been a better choice. LT in FMNH, designated by dosPassos and Grey, American Mus. Novitates, (1370): 10 (1947). **569.**

= *montana* (Reuss) *ACIDALIA*. Deutsche Ent. Zeits., [1926]: 439 (1926).

TL — "Montana". HT in ZMHU.
= ab. "edonis" (Gunder) *ARGYNNIS*. Canadian Ent., 66: 125 (1934). TL — Beaver City, Larimer Co., Colorado. HT in AMNH.

7. **coronis** (Behr) *ARGYNNIS. in* W. H. Edwards, Proc. Ent. Soc. Philadelphia, 3: 435 (1864). TL — Gilroy, Santa Clara Co., California, designated by F. M. Brown, Trans. American Ent. Soc., 91: 259 (1965). NT in CM, designated by W. H. Edwards, Proc. Ent. Soc. Philadelphia, 3: 435 (1864), as explained by F. M. Brown, Trans. American Ent. Soc., 91: 259 (1965).
   a. c. **coronis** (Behr) *ARGYNNIS. in* W. H. Edwards, Proc. Ent. Soc. Philadelphia, 3: 435 (1864). TL — Gilroy, Santa Clara Co., California, designated by F. M. Brown, Trans. American Ent. Soc., 91: 259 (1965). NT in CM, designated by W. H. Edwards, Proc. Ent. Soc. Philadelphia, 3: 435 (1864), as explained by F. M. Brown, Trans. American Ent. Soc., 91: 259 (1965). 570a.
      = *californica* (Skinner) *ARGYNNIS*. Ent. News, 28: 328 (1917). TL — Alma, Santa Clara Co., California. HT in CM.
   b. c. **hennei** (Gunder) *ARGYNNIS*. Canadian Ent., 66: 126 (1934). TL — Mt. Pinos, Frazier Mt. Park, Ventura Co., California. HT in AMNH. 570b.
   c. c. **semiramis** (W. H. Edwards) *ARGYNNIS*. Canadian Ent., 18: 61-62 (1886). TL — vic. San Bernardino, California. LT in CM, designated by dosPassos and Grey, American Mus. Novitates, (1370): 11 (1947). 570c.
      = ab. "bernardensis" (Gunder) *ARGYNNIS*. Canadian Ent., 65: 172 (1933). TL — Camp Wasewagan, San Bernardino Mtns., San Bernardino Co., California. HT in AMNH.
   d. c. **gunderi** (J. A. Comstock) *ARGYNNIS*. Bull. S. California Acad. Sci., 24: 67 (1925). TL — N of Alturas, Modoc Co., California. HT in LACM. 570d.
   e. c. **simaetha** dosPassos and Grey. American Mus. Novitates, (1297): 2 (1945). TL — Black Canyon, nr. Brewster, Washington. HT in AMNH. 570e.
   f. c. **snyderi** (Skinner) *ARGYNNIS*. Canadian Ent., 29: 154 (1897). TL — City Creek Canyon, Salt Lake City, Salt Lake Co., Utah, designated by dosPassos and Grey, American Mus. Novitates, (1370): 12 (1947). HT in CM. 570f.
   g. c. **halcyone** (W. H. Edwards) *ARGYNNIS*. Butt. N. America, 1: [81] (1869). TL — Estes Park, Larimer Co., Colorado, designated by dosPassos and Grey, American Mus. Novitates, (1370): 12 (1947). LT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 91: 265 (1965). 570g.

8. **zerene** (Boisduval) *ARGYNNIS*. Ann. Soc. Ent. France, (2)10: 303 (1852). TL — Yosemite Valley, Mariposa Co., California, designated by dosPassos and Grey, American Mus. Novitates, (1370): 12 (1947). LT in USNM, designated by dosPassos and Grey, American Mus. Novitates, (1370): 12 (1947).
   a. z. **zerene** (Boisduval) *ARGYNNIS*. Ann. Soc. Ent. France, (2)10: 303 (1852). TL — Yosemite Valley, Mariposa Co., California, designated by dosPassos and Grey, American Mus. Novitates, (1370): 12 (1947). LT in USNM, designated by dosPassos and Grey, American Mus. Novitates, (1370): 12 (1947). 571a.
      = *monticola* (Behr) *ARGYNNIS*. Proc. California Acad. Nat. Sci., 3: 84 (1863). TL — Yosemite Valley, Mariposa Co., California, designated by dosPassos and Grey, American Mus. Novitates, (1370): 12 (1947). LT in USNM, designated by dosPassos and Grey, American Mus. Novitates, (1370): 12 (1947).
   b. z. **conchyliatus** (J. A. Comstock) *ARGYNNIS*. Bull. S. California Acad. Sci., 24: 63 (1925). TL — Mt. Shasta, Siskiyou Co., California. HT in LACM. 571b.
      = ab. "shastaensis" (J. A. Comstock) *ARGYNNIS*. Bull. S. California Acad. Sci., 24: 65 (1925). TL — Mt. Shasta, Siskiyou Co., California. HT in LACM.
   c. z. **gloriosa** Moeck. Geogr. Var. Speyeria . . .: 21-24 (1957). TL — Illinois River valley, Josephine Co., Oregon. HT in AMNH. 571c.
   d. z. **sordida** (W. G. Wright) *ARGYNNIS*. Butt. W. Coast: 133 (1905). TL — 571d.

?Puget Sound, Washington. HT in CAS.

e. z. **malcolmi** (J. A. Comstock) *ARGYNNIS*. Southwest Sci. Bull.: 4 (1920). TL — Mammoth, Mono Co., California. HT in LACM. 571e.

= ab. "sineargentatus" (Gunder) *ARGYNNIS*. Canadian Ent., 59: 256 (1927). TL — Mammoth, Mono Co., California. HT in AMNH.

f. z. **carolae** (dosPassos and Grey) *ARGYNNIS*. American Mus. Novitates, (1214): 2 (1942). TL — Charleston Park, Clark Co., Nevada. HT in AMNH. 571f.

g. z. **hippolyta** (W. H. Edwards) *ARGYNNIS*. Canadian Ent., 11: 81-82 (1879). TL — Oceanside, Tillamook co., Oregon, designated by dosPassos and Grey, American Mus. Novitates, (1370): 13 (1947). LT in CM, designated by dosPassos and Grey, American Mus. Novitates, (1370): 13 (1947). 571g.

h. z. **behrensii** (W. H. Edwards) *ARGYNNIS*. Trans. American Ent. Soc., 2: 370-371 (1869). TL — Mendocino, California. LT (?) in CM, designated by dosPassos and Grey, American Mus. Novitates, (1370): 13 (1947). 571h.

i. z. **myrtleae** dosPassos and Grey. American Mus. Novitates, (1297): 3 (1045). TL — San Mateo, San Mateo Co., California. HT in AMNH. 571i.

j. z. **bremnerii** (W. H. Edwards) *ARGYNNIS*. Trans. American Ent. Soc., 4: 63-64 (1872). TL — San Juan I., Puget Sound, British Columbia. LT in CM, designated by dosPassos and Grey, American Mus. Novitates, (1370): 13 (1947). 571j.

k. z. **picta** (McDunnough) *ARGYNNIS*. Canadian Ent., 56: 43 (1924). TL — Aspen Grove, British Columbia. HT in CNC. 571k.

l. z. **garretti** (Gunder) *ARGYNNIS*. Canadian Ent., 64: 282 (1932). TL — Cranbrook, British Columbia. HT in AMNH. 571l.

m. z. **sinope** dosPassos and Grey. American Mus. Novitates, (1297): 4 (1945). TL — Rocky Mtn. Natl. Park, Estes Park area, Colorado. HT in AMNH. 571m.

n. z. **platina** (Skinner) *ARGYNNIS*. Canadian Ent., 29: 154 (1897). TL — Ogden, Weber Co., Utah, designated by dosPassos and Grey, American Mus. Novitates, (1370): 13 (1947). LT in CM, designated by dosPassos and Grey, American Mus. Novitates, (1370): 13 (1947). 571n.

o. z. **pfoutsi** (Gunder) *ARGYNNIS*. Canadian Ent., 65: 171 (1933). TL — Mt. Loafer, nr. Payson, Utah Co., Utah. HT in AMNH. 571o.

p. z. **cynna** dosPassos and Grey. American Mus. Novitates, (1297): 4: (1945). TL — Humboldt Natl. Forest, Ruby Valley, Elko Co., Nevada. HT in AMNH. 571p.

9. **callippe** (Boisduval) *ARGYNNIS*. Ann. Soc. Ent. France, (2)10: 302 (1852). TL — San Francisco, San Francisco Co., California, designated by dosPassos and Grey, American Mus. Novitates, (1370): 14 (1947). LT in USNM, designated by dosPassos and Grey, American Mus. Novitates, (1370): 14 (1947).

a. c. **callippe** (Boisduval) *ARGYNNIS*. Ann. Soc. Ent. France, (2)10: 302 (1852). TL — San Francisco, San Francisco Co., California, designated by dosPassos and Grey, American Mus. Novitates, (1370): 14 (1947). LT in USNM, designated by dosPassos and Grey, American Mus. Novitates, (1370): 14 (1947). 572a.

b. c. **comstocki** (Gunder) *ARGYNNIS*. Ent. News, 36: 8 (1925). TL — Los Angeles, Los Angeles Co., California. HT in AMNH. 572b.

= ab. "creelmani" (Gunder) *ARGYNNIS*. Canadian Ent., 66: 127 (1934). TL — East San Diego, San Diego Co., California. HT in AMNH.

c. c. **liliana** (Hy. Edwards) *ARGYNNIS*. Proc. California Acad. Sci., 7: 170 [1877]. TL — Bale Station, nr. Mt. St. Helena, Napa Co., California. LT in AMNH, designated by dosPassos and Grey, American Mus. Novitates, (1370): 14 (1947). 572c.

= *baroni* (W. H. Edwards) *ARGYNNIS*. Trans. American Ent. Soc., 9: 2-3 (1881). TL — "Bales Sta., California", designated by dosPassos and Grey, American Mus. Novitates, (1370): 14 (1947), but probably in error. HT in USNM.

d. **c. semivirida** (McDunnough) *ARGYNNIS*. Canadian Ent., 56: 42 (1924). TL — Aspen Grove, British Columbia. HT in CNC. 572d.

e. **c. elaine** dosPassos and Grey. Amerian Mus. Novitates, (1297): 5 (1945). TL — Butte Falles, Jackson Co., Oregon. HT in AMNH. 572e.

f. **c. rupestris** (Behr) *ARGYNNIS*. Proc. California Acad. Nat. Sci., 3: 84 (1863). TL — Trinity Center, Trinity Co., California, designated by dosPassos and Grey, American Mus. Novitates, (1370): 15 (1947). LT in FMNH, designated by dosPassos and Grey, American Mus. Novitates, (1370): 15 (1947). 572f.

g. **c. juba** (Boisduval) *ARGYNNIS*. Ann. Soc. Ent. Belgique, 12: 60 (1869). TL — Downieville, Sierra Co., California, designated by dosPassos and Grey, American Mus. Novitates, (1370): 15 (1947). LT in USNM, designated by dosPassos and Grey, American Mus. Novitates, (1370): 15 (1947). 572g.

= *inornata* (W. H. Edwards) *ARGYNNIS*. Trans. American Ent. Soc., 4: 64-65 (1872). TL — Downieville, Sierra Co., California. NT in CM, designated by dosPassos and Grey, *in* F. M. Brown, Trans. American Ent. Soc., 91: 275 (1965).

h. **c. laura** (W. H. Edwards) *ARGYNNIS*. Canadian Ent., 11: 49-50 (1879). TL — "Nevada", probably in error. LT in CM, designated by dosPassos and Grey, American Mus. Novitates, (1370): 15 (1947). 572h.

i. **c. sierra** dosPassos and Grey. American Mus. Novitates, (1297): 5 (1945). TL — Gold Lake, Sierra Co., California. HT in AMNH. 572i.

j. **c. nevadensis** (W. H. Edwards) *ARGYNNIS*. Trans. American Ent. Soc., 3: 14-15 (1870). TL — just N of Virginia City, Nevada. NT in CM, designated by dosPassos and Grey, Trans. American Ent. Soc., 91: 355-356 (1965). 572j.

k. **c. macaria** (W. H. Edwards) *ARGYNNIS*. Field and Forest, 3: 86-87 (1877). TL — Havilah, Kern Co., California. LT in CM, designated by dosPassos and Grey, American Mus. Novitates, (1370): 15 (1947). 572k.

l. **c. laurina** (W. G. Wright) *ARGYNNIS*. Butt. W. Coast: 138 (1905). TL — Greenhorn Mtns., Kern Co., California, designated by dosPassos and Grey, American Mus. Novitates, (1370): 16 (1947). HT in CAS. 572l.

= f. "wrighti" (W. G. Wright) *ARGYNNIS*. Butt. W. Coast: 139 (1905). TL — Greenhorn Mtns., Kern Co., California, designated by dosPassos and Grey, American Mus. Novitates, (1370): 16 (1947). LT in CAS, designated by dosPassos and Grey, American Mus. Novitates, (1370): 16 (1947).

m. **c. harmonia** dosPassos and Grey. American Mus. Novitates, (1297): 6 (1945). TL — Mt. Wheeler, Snake Range, Nevada. HT in AMNH. 572m.

n. **c. meadii** (W. H. Edwards) *ARGYNNIS*. Trans. American Ent. Soc., 4: 67-68 (1872). TL — Turkey Creek Junction, Jefferson Co., Colorado, based on Mead's itinerary and designated by F. M. Brown, Jour. Lepid. Soc., 9: 185-190 (1956). LT in CM, designated by dosPassos and Grey, American Mus. Novitates, (1370): 16 (1947). 572n.

= ab. "gerhardi" (Gunder) *ARGYNNIS*. Canadian Ent., 59: 287 (1929). TL — Turkey Creek Junction, Jefferson Co., Colorado, designated by dosPassos and Grey, American Mus. Novitates, (1370): 16 (1947). HT in FMNH.

o. **c. gallatini** (McDunnough) *ARGYNNIS*. Canadian Ent., 61: 106 (1929). TL — Elkhorn Ranch, Upper Gallatin Canyon, Gallatin Co., Montana. HT in CNC. 572o.

p. **c. calgariana** (McDunnough) *ARGYNNIS*. Canadian Ent., 56: 42 (1924). TL — Calgary (head of Pine Creek), Alberta. HT in CNC. 572p.

10. **egleis** (Behr) *ARGYNNIS*. Proc. California Acad. Nat. Sci., 2: 174 (1862). TL — Gold Lake, Sierra Co., California, designated by dosPassos and Grey, American Mus. Novitates, (1370): 17 (1947). LT in USNM, designated by dosPassos and Grey, American Mus. Novitates, (1370): 17 (1947).

a. **e. egleis** (Behr) *ARGYNNIS*. Proc. California Acad. Nat. Sci., 2: 174 (1862). TL — Gold Lake, Sierra Co., California, designated by dosPassos and Grey, American Mus. Novitates, (1370): 17 (1947). LT in USNM, designated by dosPassos and Grey, American Mus. Novitates, (1370): 17 (1947). **573a.**

= *montivaga* (Behr) *ARGYNNIS*. Proc. California Acad. Nat. Sci., 3: 84 (1863). TL — vic. Gold Lake, Sierra Co., California, designated by dosPassos and Grey, American Mus. Novitates, (1370): 17 (1947). LT in FMNH, designated by dosPassos and Grey, American Mus. Novitates, (1370): 17 (1947).

= ‡*astarte* (W. H. Edwards) *ARGYNNIS*. Proc. Ent. Soc. Philadelphia, 3: 435 (1864). misapplication of *A. astarte* Doubleday, Gen. diurn. Lepid., 1: pl. 23, fig. 5 [1847], but not *A. astarte* W. H. Edwards (also a misapplication), Proc. Ent. Soc. Philadelphia, 1: 221 (1862). TL — Gold Lake, Sierra Co., California, designated by dosPassos and Grey, American Mus. Novitates, (1370): 17 (1947). NT in FMNH, designated by dosPassos and Grey, American Mus. Novitates, (1370): 17 (1947).

= ab. "mammothi" (Gunder) *ARGYNNIS*. Ent. News, 35: 157 (1924). TL — Mammoth Camp, Mono Co., California. HT probably in LACM.

= ab. "boharti" (Gunder) *ARGYNNIS*. Bull. Brooklyn Ent. Soc., 24: 326 (1929). TL — Mono Pass trail, California. HT in AMNH.

b. **e. adiaste** (W. H. Edwards) *ARGYNNIS*. Proc. Ent. Soc. Philadelphia, 3: 436 (1864). TL — Santa Cruz, Santa Cruz Co., California, designated by dosPassos and Grey, American Mus. Novitates, (1370): 16 (1947). LT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 91: 291 (1965) [see **Note 000**]. **573b.**

= *adiante* (Boisduval) *ARGYNNIS*. Ann. Soc. Ent. Belgique, 12: 61 (1869). TL — Santa Cruz, Santa Cruz Co., California, designated by dosPassos and Grey, American Mus. Novitates, (1370): 16 (1947). LT in CM, designated by dosPassos and Grey, American Mus. Novitates, (1370): 16 (1947) [see **Notes 454** and **456**].

c. **e. clemencei** (J. A. Comstock) *ARGYNNIS*. Bull. S. California Acad. Sci., 24: 67 (1925). TL — Atascadero, San Luis Obispo Co., California. HT in LACM. **573c.**

d. **e. atossa** (W. H. Edwards) *ARGYNNIS*. Butt. N. America, 3: 125-126 (1890). TL — Tehachapi, Kern Co., California. LT in CM, designated by dosPassos and Grey, American Mus. Novitates, (1370): 17 (1947). **573d.**

= *tejonica* (J. A. Comstock) *ARGYNNIS*. Bull. S. California Acad. Sci., 24: 68 (1925). HT in LACM.

e. **e. tehachapina** (J. A. Comstock) *ARGYNNIS*. Southwest Sci. Bull.: 6 (1920). TL — Tehachapi Mtns., Kern Co., California. HT in LACM. **573e.**

f. **e. oweni** (W. H. Edwards) *ARGYNNIS*. Canadian Ent., 24: 105-106 (1892). TL — Mt. Shasta, Siskiyou Co., California. LT in CM, designated by dosPassos and Grey, American Mus. Novitates, (1370): 17 (1947). **573f.**

g. **e. linda** (dosPassos and Grey) *ARGYNNIS*. American Mus. Novitates, (1214): 1 (1942). TL — Heyburn Peak, Sawtooth-Boise, Custer Co., Idaho. HT in AMNH. **573g.**

h. **e. macdunnoughi** (Gunder) *ARGYNNIS*. Canadian Ent., 64: 280 (1932). TL — Elkhorn Ranch Resort, Upper Gallatin Canyon, Gallatin Co., Montana. HT in CNC. **573h.**

i. **e. albrighti** (Gunder) *ARGYNNIS*. Canadian Ent., 64: 281 (1932). TL — Highwood Mtns., Chouteau Co., Montana. HT in AMNH. **573i.**

j. **e. utahensis** (Skinner) *ARGYNNIS*. Ent. News, 30: 216 (1919). TL — City Creek Canyon, Salt Lake City, Salt Lake Co., Utah. HT in CM. **573j.**

k. **e. toiyabe** Howe. Butt. N. America: 237 (1975). TL — Kingston Canyon, Toiyabe Range, Lander Co., Nevada. HT in LACM. **573k.**

l. **e. secreta** dosPassos and Grey. American Mus. Novitates, (1297): 7 (1945). TL — Rocky Mountain Natl. Park, Estes Park area, Colorado. HT in AMNH. 573l.

11. **atlantis** (W. H. Edwards) *ARGYNNIS*. Proc. Acad. Nat. Sci. Philadelphia, 14: 54-55 (1862). TL — Hunter, Greene Co., New York, designated by dosPassos, Canadian Ent., 67: 85 (1935). LT in CM, designated by dosPassos, Canadian Ent., 67: 85 (1935).

a. **a. atlantis** (W. H. Edwards) *ARGYNNIS*. Proc. Acad. Nat. Sci. Philadelphia, 14: 54-55 (1862). TL — Hunter, Greene Co., New York, designated by dosPassos, Canadian Ent., 67: 85 (1935). LT in CM, designated by dosPassos, Canadian Ent., 67: 85 (1935). 574a.

= ab. "chemo" (Scudder) *ARGYNNIS*. Butt. E. United States . . .: 573 (1889). TL — Lake Chemo, 10 mi. NE Bangor, Penobscot Co., Maine. HT in MCZ.

b. **a. canadensis** (dosPassos) *ARGYNNIS*. Canadian Ent., 67: 85 (1935). TL — Doyles Station, Newfoundland. HT in AMNH. 574b.

c. **a. hollandi** (F. and R. Chermock) *ARGYNNIS*. Canadian Ent., 72: 82 (1940). TL — Riding Mtns., Manitoba. HT in CNC. 574c.

d. **a. hesperis** (W. H. Edwards) *ARGYNNIS*. Proc. Ent. Soc. Philadelphia, 2: 502-503 (1864). TL — Turkey Creek Junction, Jefferson Co., Colorado, designated by dosPassos and Grey, American Mus. Novitates, (1370): 19 (1947). NT in CM, designated by dosPassos and Grey, American Mus. Novitates, (1370): 19 (1947). 574d.

e. **a. nikias** (Ehrmann) *ARGYNNIS*. Lepidopterist, 1: 55 (1917). TL — "Temez" [*sic.* = Jemez] Springs, Sandoval Co., New Mexico. LT in CM, designated by dosPassos and Grey, American Mus. Novitates, (1370): 19 (1947). 574e.

f. **a. dorothea** Moeck. Ent. News, 58: 73-75 (1947). TL — Sandia Peak, Sandia Mtns., Sandoval Co., New Mexico. HT in AMNH. 574f.

g. **a. nausicaa** (W. H. Edwards) *ARGYNNIS*. Trans. American Ent. Soc., 5: 104-105 (1874). TL — "Rocky Canyon, Arizona", probably Rock Canyon, Graham Co., Arizona according to F. M. Brown, Trans. American Ent. Soc., 91: 301 (1965). LT in CM, designated by dosPassos and Grey, American Mus. Novitates, (1370): 19 (1947). 574g.

= *arizonensis* (Elwes) *ARGYNNIS*. Trans. Ent. Soc. London, [1889]: 546 (1889). TL — "Rocky Canyon, Arizona", probably Rock Canyon, Graham Co., Arizona according to F. M. Brown, Trans. American Ent. Soc., 91: 301 (1965). NT in CM, designated by dosPassos and Grey, American Mus. Novitates, (1370): 19 (1947).

h. **a. schellbachi** Garth. Bull. S. California Acad. Sci., 48: 1-4 (1949). TL — Neal Springs, North Rim, Grand Canyon Natl. Park, Coconino Co., Arizona. HT in Allan Hancock Foundation (now in LACM?) [see **Note 457**]. 574h.

i. **a. chitone** (W. H. Edwards) *ARGYNNIS*. Canadian Ent., 11: 82 (1879). TL — Cedar Breaks Natl. Mon., Iron Co., Utah, designated by dosPassos and Grey, American Mus. Novitates, (1370): 19 (1947). LT in CM, designated by dosPassos and Grey, American Mus. Novitates, (1370): 19 (1947). 574i.

j. **a. wasatchia** dosPassos and Grey. American Mus. Novitates, (1297): 9 (1945). TL — Payson Canyon, Payson, Utah Co., Utah. HT in AMNH. 574j.

k. **a. greyi** (Moeck) *ARGYNNIS*. Ent. News, 61: 61-64 (1950). TL — Lamoille Canyon, Ruby Mtns., Elko Co., Nevada. HT probably in Milwaukee Public Mus. 574k.

l. **a. tetonia** dosPassos and Grey. American Mus. Novitates, (1297): 9 (1945). TL — Teton Mtns., Wyoming. HT in AMNH. 574l.

m. **a. viola** dosPassos and Grey. American Mus. Novitates, (1297): 10 (1945). TL — Trail Creek, Sawtooth Mtns., Idaho. HT in AMNH. 574m.

n. **a. dodgei** (Gunder) *ARGYNNIS*. Bull. S. California Acad. Sci., 30: 46 (1931). TL — Diamond Lake, Douglas Co., Oregon. HT in AMNH. 574n.

o. **a. irene** (Boisduval) *ARGYNNIS.* Ann. Soc. Ent. Belgique, 12: 60 (1869). TL — Massack, Plumas Co., California, designated by dosPassos and Grey, American Mus. Novitates, (1370): 20 (1947). LT in USNM, designated by dosPassos and Grey, American Mus. Novitates, (1370): 20 (1947). **574o.**

= *cottlei* (J. A. Comstock) *ARGYNNIS.* Bull. S. California Acad. Sci., 24: 64 (1925). TL — nr. Alturas, Modoc Co., California. HT in LACM.

p. **a. electa** (W. H. Edwards) *ARGYNNIS.* Field and Forest, 3: 143-144 (1878). TL — Turkey Creek Junction, Jefferson Co., Colorado, designated by F. M. Brown, Trans. American Ent. Soc., 91: 306-309 (1965). LT in CM, designated by dosPassos and Grey, American Mus. Novitates, (1370): 20 (1947). **574p.**

= *cornelia* (W. H. Edwards) *ARGYNNIS.* Canadian Ent., 24: 106-107 (1892). TL — Ouray, Ouray Co., Colorado, designated by dosPassos and Grey, American Mus. Novitates, (1370): 20 (1947). LT in CM, designated by dosPassos and Grey, American Mus. Novitates, (1370): 20 (1947).

q. **a. lurana** dosPassos and Grey. American Mus. Novitates, (1297): 8 (1945). TL — Harney Peak, Black Hills, South Dakota. HT in AMNH. **574q.**

r. **a. hutchinsi** dosPassos and Grey. American Mus. Novitates, (1370): 20 (1947). TL — Township 2 North, Range 1 West, Jefferson Co., Montana. HT in AMNH. Raising of ab. "hutchinsi" (Gunder). **574r.**

= ab. "hutchinsi" (Gunder) *ARGYNNIS.* Canadian Ent., 64: 280 (1932). TL — Township 2 North, Range 1 West, Jefferson Co., Montana. HT in AMNH.

s. **a. beani** (Barnes and Benjamin) *DRYAS.* Bull. S. California Acad. Sci., 25: 92 (1926). TL — Banff, Alberta. HT in USNM. **574s.**

t. **a. lais** (W. H. Edwards) *ARGYNNIS.* Canadian Ent., 15: 209 (1884). TL — "Red Deer River", corrected to Edmonton, Alberta by Geddes, Canadian Ent., 15: 222 (1884). LT in CM, designated by dos Passos and Grey, American Mus. Novitates, (1370): 20 (1947) [see **Note 458**]. **574t.**

= *helena* dos Passos and Grey. J. New York Ent. Soc., 63: 95-96 (1957). TL — "Red Deer River", restricted to Edmonton, Alberta by dos Passos and Grey, American Mus. Novitates, (1370): 20 (1947). Proposed to replace *lais* W. H. Edwards (see above), wrongly believed preoccupied.

u. **a. dennisi** dosPassos and Grey. American Mus. Novitates, (1370): 20 (1947). TL — Beulah, Manitoba. HT in AMNH. Raising of ab. "dennisi" (Gunder). **574u.**

= ab. "dennisi" (Gunder) *ARGYNNIS.* Canadian Ent., 59: 287 (1927). TL — Beulah, Manitoba. HT in AMNH.

12. **hydaspe** (Boisduval) *ARGYNNIS.* Ann. Soc. Ent. Belgique, 12: 60 (1869). TL — Yosemite Valley, Mariposa Co., California, designated by dosPassos and Grey, American Mus. Novitates, (1370): 21 (1947). LT in USNM, designated by dosPassos and Grey, American Mus. Novitates, (1370): 21 (1947).

a. **h. hydaspe** (Boisduval) *ARGYNNIS.* Ann. Soc. Ent. Belgique, 12: 60 (1869). TL — Yosemite Valley, Mariposa Co., California, designated by dosPassos and Grey, American Mus. Novitates, (1370): 21 (1947). LT in USNM, designated by dosPassos and Grey, American Mus. Novitates, (1370): 21 (1947). **575a.**

b. **h. viridicornis** (J. A. Comstock) *ARGYNNIS.* Bull. S. California Acad. Sci., 24: 64 (1925). TL — Greenhorn Mtns., California. HT in LACM. **575b.**

c. **h. purpurascens** (Hy. Edwards) *ARGYNNIS.* Proc. California Acad. Sci., 7: 170 [1877]. TL — Soda Springs, Siskiyou Co., California. LT in AMNH, designated by dosPassos and Grey, American Mus. Novitates, (1370): 21 (1947). **575c.**

= ab. "caliginosa" (J. A. Comstock) *ARGYNNIS.* Bull. S. California Acad. Sci., 24: 66 (1925). TL — Modoc Co., California.

HT in AMNH.

d. **h. minor** dosPassos and Grey. American Mus. Novitates, (1370): 21 (1947). TL — Mt. McLean, Lillooet, British Columbia. HT in CNC. Raising of f. alt. "minor" (McDunnough). 575d.

= f. alt. "minor" (McDunnough) *ARGYNNIS*. Canadian Ent., 59: 155 (1927). TL — Mt. McLean, Lillooet, British Columbia. HT in CNC.

e. **h. rhodope** (W. H. Edwards) *ARGYNNIS*. Trans. American Ent. Soc., 5: 13-14 (1874). TL — Fraser River lowlands, British Columbia, designated by F. M. Brown, Trans. American Ent. Soc., 91: 315 (1965). A previous designation for "Cariboo Dist., British Columbia" by dosPassos and Grey, American Mus. Novitates, (1370): 21 (1947) is rejected. LT in CM, designated by dosPassos and Grey, American Mus. Novitates, (1370): 21 (1947). 575e.

= ab. "gregsoni" (Gunder) *ARGYNNIS*. Canadian Ent., 64: 281 (1932). TL — Mt. Washington, Forbidden Plateau, Vancouver I., British Columbia. HT in AMNH.

f. **h. sakuntala** (Skinner) *ARGYNNIS*. Ent. News, 22: 108 (1911). TL — Kaslo, British Columbia. LT in CM, designated by dosPassos and Grey, American Mus. Novitates, (1370): 22 (1947). 575f.

= *skinneri* (Holland) *ARGYNNIS*. Butt. Book. (rev. ed.): 95 (1931). TL — Kaslo, British Columbia. LT in CM, designated by dosPassos and Grey, American Mus. Novitates, (1370): 21 (1947). Proposed as replacement name for *sakuntala* (Skinner), wrongly thought preoccupied.

g. **h. conquista** dosPassos and Grey. American Mus. Novitates, (1297): 8 (1945). TL — Little Tesuque Canyon, nr. Santa Fe, Santa Fe Co., New Mexico. HT in AMNH. 575g.

13. **mormonia** (Boisduval) *ARGYNNIS*. Ann. Soc. Ent. Belgique, 12: 58 (1869). TL — "Salt Lake", here restricted to vic. Pyramid L., Nevada. LT in USNM, designated by dosPassos and Grey, American Mus. Novitates, (1370): 22 (1947) [see **Note 459**].

a. **m. bischoffii** (W. H. Edwards) *ARGYNNIS*. Trans. American Ent. Soc., 3: 189-190 (1870). TL — vic. Sitka, Baronoff I., Alaska, designated by F. M. Brown, Trans. American Ent. Soc., 91: 316-320 (1965). NT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 91: 320-321 (1965); the same specimen earlier was designated as LT by dosPassos and Grey, American Mus. Novitates, (1370): 22 (1947). 576a.

b. **m. opis** (W. H. Edwards) *ARGYNNIS*. Trans. American Ent. Soc., 5: 105-106 (1874). TL — Bald Mt. [nr. Keithley], Cariboo, British Columbia. LT in CM, designated by dosPassos and Grey, American Mus. Novitates, (1370): 22 (1947). 576b.

c. **m. jesmondensis** dosPassos and Grey. American Mus. Novitates, (1370): 22 (1947). TL — Jesmond, British Columbia. HT in CNC. Raising of ab. "jesmondensis" (McDunnough). 576c.

= ab. "jesmondensis" (McDunnough) *ARGYNNIS*. Canadian Ent., 72: 25 (1940). TL — Jesmond, British Columbia. HT in CNC [see **Note 460**].

d. **m. washingtonia** (Barnes and McDunnough) *ARGYNNIS*. Contrib. Nat. Hist. Lepid. N. America, 2: 95 (1913). TL — Paradise Valley, Mt. Rainier, Pierce Co., Washington. LT in USNM, designated by dosPassos and Grey, American Mus. Novitates, (1370): 22 (1947). 576d.

f. "rainierensis" (Gunder) *ARGYNNIS*. Canadian Ent., 64: 282 (1932). TL — Paradise Valley, Mt. Rainier, Pierce Co., Washington. HT in AMNH.

e. **m. erinna** (W. H. Edwards) *ARGYNNIS*. Canadian Ent., 15: 33-34 (1883). TL — Spokane Falls, Spokane Co., Washington, designated by dosPassos and Grey, American Mus. Novitates, (1370): 23 (1947). LT in CM, designated 576e.

by dosPassos and Grey, American Mus. Novitates, (1370): 23 (1947).

= ab. "cunninghami" (Owen) *ARGYNNIS.* Ent. News, 4: 246 (1893). TL — Klamath Co., Oregon. HT in USNM.

f. **m. arge** (Strecker) *ARGYNNIS.* Butt. Moths. N. America . . .: 114 (1878). TL — Monache Meadows, Tulare Co., California, designated by dosPassos and Grey, American Mus. Novitates, (1370): 23 (1947). LT in FMNH, designated by dosPassos and Grey, American Mus. Novitates, (1370): 23 (1947). **576f.**

= ‡*astarte* (W. H. Edwards) *ARGYNNIS.* Proc. Ent. Soc. Philadelphia, 1: 221 (1862). Misapplication of *A. astarte* Doubleday, Gen. diurn. Lepid., 1: pl. 23, fig. 5 [1847]. TL — Monache Meadows, Tulare Co., California, designated by dosPassos and Grey, American Mus. Novitates, (1370): 23 (1947). NT in FMNH, designated by dosPassos and Grey, American Mus. Novitates, (1370): 23 (1947).

= ‡*montivaga* (Behr) *ARGYNNIS. in* W. H. Edwards, Proc. Ent. Soc. Philadelphia, 3: 435 (1864). TL — Monache Meadows, Tulare Co., California, designated by dosPassos and Grey, American Mus. Novitates, (1370): 23 (1947). NT in FMNH, designated by dosPassos and Grey, American Mus. Novitates, (1370): 23 (1947). Preoccupied by *A. montivaga* Behr, Proc. California Acad. Nat. Sci., 3: 84 (1863).

g. **m. artonis** (W. H. Edwards) *ARGYNNIS.* Trans. American Ent. Soc., 9: 1-2 (1881). TL — Wells, Elko Co., Nevada, designated by dosPassos and Grey, American Mus. Novitates, (1370): 23 (1947). LT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 91: 325-327 (1947) [a designation by dosPassos and Grey, American Mus. Novitates, (1370): 23 (1947) is held to be invalid]. **576g.**

= f. "rubyensis" (Gunder) *ARGYNNIS.* Canadian Ent., 64: 282 (1932). TL — Franklin Slough, nr. Wright's Ranch, Ruby Valley, Elko Co., Nevada. HT in AMNH.

h. **m. mormonia** (Boisduval) *ARGYNNIS.* Ann. Soc. Ent. Belgique, 12: 58 (1869). TL — "Salt Lake", here restricted to vic. Pyramid L., Nevada. LT in USNM, designated by dosPassos and Grey, American Mus. Novitates, (1370): 22 (1947) [see **Note 459**]. **576h.**

i. **m. eurynome** (W. H. Edwards) *ARGYNNIS.* Trans. American Ent. Soc., 4: 66-67 (1872). TL — Fairplay, Park Co., Colorado, designated by dosPassos and Grey, American Mus. Novitates, (1370): 24 (1947). LT in CM, designated by dosPassos and Grey, American Mus. Novitates, (1370): 24 (1947) [see **Note 461**]. **576i.**

= *clio* (W. H. Edwards) *ARGYNNIS.* Trans. American Ent. Soc., 5: 106-107 (1874). TL — Jackson, Teton Co., Wyoming, designated by dosPassos and Grey, American Mus. Novitates, (1370): 23 (1947). NT in AMNH, designated by dosPassos and Grey, American Mus. Novitates, (1370): 23 (1947).

= ‡ab. "eris" (Igel) *ARGYNNIS.* Ent. Zeits. (Frankfort), 36: 20 (1922). TL — Calgary, Alberta. HT in Igel collection. Preoccupied by *A. eris* Meigen, Syst. Beschreib. Europaischen Schmett., 1: 64 (1828).

= ab. "benjamini" (Gunder) *ARGYNNIS.* Canadian Ent., 59: 287 (1927). TL — Arangie, Idaho. HT in USNM.

= ab. "brucei" (Gunder) *ARGYNNIS.* Canadian Ent., 59: 287 (1927). TL — Denver, Denver Co., Colorado, designated by dosPassos and Grey, American Mus. Novitates, (1370): 23 (1947). HT in FMNH.

= ‡ab. "gunderi" (Field) *ARGYNNIS.* Jour. Ent. & Zool., 28: 23 (1936). TL — Broadwater Co., Montana. HT in USNM. Preoccupied by *A. gunderi* J. A. Comstock, Bull. S. California

Acad. Sci., 24: 67 (1925).

= ab. "igeli" dosPassos and Grey. American Mus. Novitates, (1370): 23 (1947). TL — Calgary, Alberta. HT in Igel collection. Proposed to replace ab. "eris" Igel, preoccupied.

= ab. "fieldi" dosPassos and Grey. American Mus. Novitates, (1370): 23 (1947). TL — Broadwater Co., Montana. HT in USNM. Proposed to replace ab. "gunderi" Field, preoccupied.

j. **m. luski** (Barnes and McDunnough) *ARGYNNIS.* Contrib. Nat. Hist. Lepid. N. America, 2: 95 (1913). TL — White Mtns., Arizona. LT in USNM, designated by dosPassos and Grey, American Mus. Novitates, (1370): 24 (1947). **576j.**

Genus CLXXXVII: **Boloria** Moore

Lepid. Indica, 4: 243 [1900]. Type-species by original designation *Papilio pales* [Denis and Schiifermüller], Ankündung eines syst. Werkes Schmett. Wiener Gegend: 177 (1775) [see **Note 462**].

*1. **napaea** (Hoffmansegg) *PAPILIO. in* Illiger, Mag. f. Insektenk., 3: 196 (1804). TL — Tyrolean Alps, Austria. Loc. of type not known. Proposed as replacement name for *P. isis* Hübner, preoccupied [see **Note 75**].

= ‡*isis* (Hübner) *[PAPILIO].* Samml. Europäischer Schmett.: pl. 7, figs. 38-39; pl. 110, figs. 563-564 [1799-1800]. TL — Tyrolean Alps, Austria. Type may be in Vienna or lost [see **Note 9**]. Preoccupied by *PAPILIO isis* Thunberg, D. D. Dissert. Ent. Sist. Ins. Svecica, (2): 31 (1791).

a. **n. alaskensis** (Holland) *BRENTHIS.* Ent. News, 9: 383 (1900). TL — "mountains between Forty-Mile and Mission Creeks", Alaska. HT in CM. **577a.**

= *reiffi* Reuss. Internatl. Ent. Zeits. (Guben), 19: cols. 279-280 (1925). TL — "British Columbia". ST's in Reuss collection.

b. **n. nearctica** Verity. Deutsche Ent. Zeits. (Iris), 46: 104, 108 (1932). TL — Northeastern Alaska at 69° 40' N. Lat., 141° W. Long. Loc. of type not known [see **Note 463**]. **577b.**

c. **n. halli** Klots. American Mus. Novitates, (1054): 1-4 (1940). TL — vic. Green River Pass, Wind River Range, Sublette Co., Wyoming. HT in AMNH. **577c.**

Genus CLXXXVIII: **Proclossiana** Reuss

Deutsche Ent. Zeits (Iris), 51: 168 (1926). Type-species by original designation *Papilio aphirape* Hübner, Samml. Europäischer Schmett.: Pl. 5, figs. 23-25 [1799-1800]. (=*Papilio eunomia* Esper, Die Schmett., Suppl. Band. 1: 94 [1799]).

*1. **eunomia** (Esper) *PAPILIO.* Die Schmett., Suppl. Band 1: 94 [1799]. TL not given. Loc. of type not known.

= *aphirape* (Hübner) *[PAPILIO].* Samml. Europäischer Schmett.: pl. 5, figs. 23-25 [1799-1800]. TL not given. Type probably lost [see **Note 9**].

= *tomyris* (Herbst) *PAPILIO.* Natur. Bekannt. Ausslandischer Ins. Die Schmett., 10: 102-104 (1800). TL — Prussia. Type probably lost.

a. **e. triclaris** (Hübner) *ARGYNNIS.* Samml. Exot. Schmett., 2: pl. 19, figs. 1-4 [1821]. TL not stated. Type may be in Vienna or lost [see **Notes 9** and **464**]. **578a.**

= ‡*ossianus* (Boisduval) *ARGYNNIS.* Icon. Hist. Lepid. Nouv. Peu Connu, 1: 94-95 (1832). TL — "Lappland and Labrador". Loc of types not known. Preoccupied by *ossianus* Herbst, Natur. Bekannt. Ausslandischer Schmett., 10: pl. 270, figs. 4, 5 (1800).

b. **e. alticola** (Barnes and McDunnough) *[BRENTHIS].* Contrib. Nat. Hist. Lepid. N. America, 2: 97-98 (1913). TL — Hall Valley, Park Co., Colorado. ST's in USNM [see **Note 465**]. **578b.**

= *caelestis* (Hemming) *ARGYNNIS.* Entomologist, 66: 275 (1933). TL —

Hall Valley, Park Co., Colorado. ST's in USNM. Proposed to replace *alticola* Barnes and McDunnough (see above), wrongly believed to be preoccupied.

c. **e. dawsoni** (Barnes and McDunnough) *BRENTHIS.* Canadian Ent., 48: 222-223 (1916). TL — Hymers, Ontario. ST's in USNM. **578c.**
= *harperi* (Gunder) *BRENTHIS.* Canadian Ent., 66: 127 (1934). TL — Churchill, Manitoba. HT in CAS.

d. **e. nichollae** (Barnes and Benjamin) *BRENTHIS.* Bull. S. California Acad. Sci., 25: 92 (1926). TL — "Rocky Mtns.", probably of Alberta. HT in USNM. **578d.**

e. **e. laddi** (Klots) *BOLORIA.* American Mus. Novitates, (1024): 4 (1940). TL — "in willow bog, Hudsonian zone, 10,400 to 10,800 ft.", Snowy Range, Albany Co., Wyoming. HT in AMNH. **578e.**

f. **e. ursadentis** (Ferris and Groothuis) *BOLORIA.* Jour. Res. Lepid., 9: 245-247 (1971 "1970"). TL — Beartooth Pass, Park Co., Wyoming, 1/2 mi. S Wyoming-Montana border. HT in AME. **578f.**

g. **e. denali** (Klots) *BRENTHIS (CLOSSIANA).* Jour. New York Ent. Soc., 48: 413-414 (1940). TL — McKinley Natl Park, Alaska. HT in AMNH. **578g.**

Genus CLXXXIX: **Clossiana** Reuss

Ent. Mitt., 9: 192 (footnote). Type-species by original designation *PAPILIO selene* [Denis and Schiffermüller], Ankündung. eines syst. Werkes Schmett. Wiener Gegend: 321 (1775) [see **Note 466**].

*1. **selene** [Denis and Schiffermüller] *PAPILIO.* Ankündung eines syst. Werkes Schmett. Wiener Gegend: 321 (1775). TL — vic. Vienna, Austria. Loc. of type not known [see **Note 75**].

a. **s. myrina** (Cramer) *PAPILIO.* Uitl. Kapellen, 2: 141, 150 [1777]. TL — vic. New York, New York. Type probably lost [see **Notes 7** and **467**]. **579a.**
= *myrissa* (Godart) *ARGYNNIS.* Encyc. Meth., 9: 806 [1824]. TL — vic. of New York, New York. Type probably lost. Proposed as replacement name for *myrina* Cramer.
= *marilandica* (A. H. Clark) *BRENTHIS.* Jour. Washington Acad. Sci., 31: 384 (1941). TL — Beltsville, Prince George's Co., Maryland, nr. USDA Experiment Station. ST's in USNM.
= ab. "nubes" (Scudder) *BRENTHIS.* Butt. E. United States . . ., 1: 595-596 (1889). TL — Sanborton, New Hampshire. HT in MCZ.
= ab. "nivea" (Gunder) *BRENTHIS.* Canadian Ent., 60: 163 (1928). TL — Staten I., New York. HT in AMNH.

b. **s. nebraskensis** (Holland) *BRENTHIS.* Ann. Carnegie Mus., 19: 36-37 (1928). TL — Dodge Co., Nebraska. ST's in CM. **579b.**

c. **s. sabulocollis** (Kohler) *BOLORIA.* J. Lepid. Soc., 31: 252-253 (1977). TL — Smith Lake, Sheridan Co., Nebraska. HT in AMNH. **579c.**

d. **s. tollandensis** (Barnes and Benjamin) *BRENTHIS.* Ent. News, 32: 44 (1925). TL — Tolland, Moffat Co., Colorado. HT in USNM. **579d.**
= ab. "serratimarginata" (Gunder) *BRENTHIS.* Ent. News, 37: 7 (1926). TL — Vernon, British Columbia. HT in AMNH.

e. **s. albequina** (Holland) *B[RENTHIS].* Ann. Carnegie Mus., 19: 40-41 (1928). TL — Whitehorse Pass, Yukon Territory. HT in CM. **579e.**
= ab. "baxteri" (Holland) *B[RENTHIS].* Ann. Carnegie Mus., 19: 40-41 (1928). TL — Whitehorse Pass, Yukon Territory. HT in CM.

f. **s. atrocostalis** (Huard) *ARGYNNIS.* Le Naturaliste Canadien, 56: 131 (1927). TL — Chicoutimi, Quebec. Loc. of type not known. **579f.**
= *jenningsae* (Holland) *B[RENTHIS].* Ann. Carnegie Mus., 19: 36 (1928). TL — Jellicoe, Thunder Bay, Ontario. HT in CM.

g. s. **terraenovae** (emended) (Holland) *BRENTHIS.* Ann. Carnegie Mus., 19: 36 (1928). TL — "Newfoundland". ST's in CM. **579g.**

2. **bellona** (Fabricius) *PAPILIO.* Syst. Ent.: 517-518 (1775). TL — "in America". 1 probable ST in Kiel.

a. **b. bellona** (Fabricius) *PAPILIO.* Syst. Ent.: 517-518 (1775). TL — "in America". 1 probable ST in Kiel [see **Note 468**]. **580a.**

= *ammiralis* (Hemming) *ARGYNNIS.* The Entom., 66: 276 (1933). TL — "in America". 1 probable ST in Kiel. Proposed to replace *bellona* Fabricius, wrongly thought preoccupied.

= f. "kleeni" (Watson) *BRENTHIS.* J. New York Ent. Soc., 28: 171-172 (1921). TL — West Hartford, Connecticut. HT in AMNH.

= ab. "fasciata" (T. Cockerell) *ARGYNNIS.* The Entom., 22: 99 (1889). TL — "Massachusetts". Type probably lost. Name based on figure by Maynard, Butt. N. England: 27-28 [1886].

= ab. "pardopsis" (Holland) *BRENTHIS.* Ann. Carnegie Mus., 19: 45 (1928). TL — Crafton, Allegheny Co., Pennsylvania. HT in CM.

b. **b. toddi** (Holland) *BRENTHIS.* Ann. Carnegie Mus., 19: 44-45 (1928). TL — St. Margarets River, Quebec. HT in CM. **580b.**

c. **b. jenistae** D. Stallings and Turner. Canadian Ent., 78: 135-136 (1947). TL — Lloydminster, Saskatchewan. HT in USNM. **580c.**

*3. **frigga** (Thunberg) *PAPILIO.* D. D. Dissert. Ent. Sist. Ins. Svecicia, (2): 33-34 (1791). TL — "Lappland". Loc. of type not known.

a. **f. saga** (Staudinger) *ARGYNNIS.* Stettiner Ent. Ztg., 22: 350-351 (1861). TL — "Labrador". HT in BM (*ex* Kaden collection). **581a.**

b. **f. alaskensis** (Lehmann) *ARGYNNIS. in* Seitz, Grossschmett. Erde, 5: 424 (1913). TL — Lat. 69°40' N., Long. 141° W., NE Alaska. HT should be in Senckenberg Mus., Frankfurt [see **Note 469**]. **581b.**

= *gibsoni* (Barnes and McDunnough) *BRENTHIS.* Bull. S. California Acad. Sci., 25: 92 (1926). TL — Barter's I., N. Alaska (presumably incorrect, [see **Note 470**]. HT stated to be in USNM, but probably in Senckenberg Mus., Frankfurt.

= *lehmanni* (Holland) *BRENTHIS.* Ann. Carnegie Mus., 19: 44 (1928). TL — Lat. 69°40' N., Long. 141° W., NE Alaska. HT should be in Senckenberg Mus. Frankfurt, Hamburg. Proposed to replace *alaskensis* Lehmann (see above), wrongly believed to be preoccupied.

c. **f. sagata** (Barnes and Benjamin) *BRENTHIS.* Canadian Ent., 55: 146 (1923). TL — Hall Valley, [Park Co.], Colorado. HT in USNM. **581c.**

4. **improba** (Butler) *ARGYNNIS.* Ent. Mo. Mag., 13: 206 (1877). TL — "Winter Cove and Cambridge Bay", Northwest Territories. ST's in BM.

a. **i. improba** (Butler) *ARGYNNIS.* Ent. Mo. Mag., 13: 206 (1877). TL — "Winter Cove and Cambridge Bay", Northwest Territories. ST's in BM. **582a.**

b. **i. youngi** (Holland) *B[RENTHIS].* Ent. News, 11: 383-384 (1900). TL — "mountains between Forty-Mile and Mission Creeks, NE Alaska". HT in CM. **582b.**

5. **kriemhild** (Strecker) *ARGYNNIS. in* Ruffner, Ann. Rept. Sec. War for 1878, Append. SS: 1854 [1878-1879]. TL — "Utah, Arizona, Colorado". ST's in FMNH [see **Note 471**]. **583.**

= *laurenti* (Skinner) *ARGYNNIS.* Ent. News, 24: 430 (1913). TL — Silver Lake, Brightons, Utah. ST's in CM.

= *lucki* Reuss (emendation). Soc. Ent., 38: 14 (1923). TL — "Utah". Loc. of type not known [see **Note 472**].

6. **epithore** (W. H. Edwards) *ARGYNNIS.* Proc. Ent. Soc. Philadelphia, 2: 503-504 [1864]. TL — "California", restricted to Saratoga, Santa Clara Co., California by F. M. Brown, Trans. American Ent. Soc., 91: 334 (1965). NT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 91: 334 (1965).

a. e. **epithore** (W. H. Edwards) *ARGYNNIS*. Proc. Ent. Soc. Philadelphia, 2: 503-504 [1864]. TL — "California", restricted to Saratoga, Santa Clara Co., California, by F. M. Brown, Trans. American Ent. Soc., 91: 334 (1965). NT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 91: 334 (1965). **584a.**

= ‡*epithore* (Boisduval) *ARGYNNIS*. Ann. Soc. Ent. Belgique, 12: 58 (1869). TL — "California" by implication of title of article, restricted to vic. of Santa Cruz Mtns., Santa Cruz Co., California, by E. Perkins and Meyer, Bull. Allyn Mus., (11): 4 (1973). "Type" supposedly in CM. Preoccupied by *epithore* W. H. Edwards, a name based on the Boisduval manuscript name later "validated" by Boisduval.

b. e. **chermocki** (E. and S. Perkins) *BOLORIA*. J. Lepid. Soc., 20: 109-112 (1966). TL — 2.9 mi. E Dolph, Yamhill Co., Oregon. HT in LACM. **584b.**

c. e. **borealis** (E. Perkins) *BOLORIA*. *in* E. Perkins and Meyer, Bull. Allyn Mus., (11): 6-8 (1973). TL — Shingle Creek Rd., Keremos, British columbia. HT in CNC. **584c.**

= ab. "obscuripennis" (Gunder) *BRENTHIS*. Ent. News, 37: 7 (1926). TL — Chilcolin, British Columbia. HT in AMNH.

d. e. **sierra** (E. Perkins) *BOLORIA*. *in* E. Perkins and Meyer, Bull. Allyn Mus., (11): 10-11 (1973). TL — Sentinel Dome, Yosemite Natl. Park, Mariposa Co., California. HT in AME. **584d.**

= ab. "eldorado" (Strand) *BRENTHIS*. Arch. f. Naturgesch., (A)80(11): 156 (1915). TL — Plumas and Eldorado Cos., California. ST's should be in ZMHU.

= ab. "wawonae" (Gunder) *BRENTHIS*. Ent. News, 35: 156 (1924). TL — Wawona, Mariposa Co., California. HT in AMNH.

7. **polaris** (Boisduval) *ARGYNNIS*. Europ. Lepid. Ins. Meth.: 15-16 [1828]. TL — "Cap Nord", [Norway]. Loc. of type not known.

a. p. **polaris** (Boisduval) *ARGYNNIS*. Europ. Lepid. Ins. Meth.: 15-16 [1828]. TL — "Cap Nord", [Norway]. Loc. of type not known. **585a.**

= *groenlandica* ([Anonymous]) *ARGYNNIS*. Ent. News, 3: 49 (1892). TL — ["Greenland"], from explanation on plate. HT probably in CM [see **Note 473**].

= *americana* (Strand) *ARGYNNIS*. Rept. 2nd Norwegian Exped. "Fram", 1898-1902, 1(3): 10-11 (1905). TL — Ellesmere Land and Jones Sound, Northwest Territories. Loc. of types not known.

b. p. **stellata** (Masters) *BOLORIA*. Ent. Rec., 84: 177 (1972). TL — Churchill, Manitoba. HT in CM. **585b.**

8. **freija** (Thunberg) *PAPILIO*. D. D. Dissert Ent. Sist. Ins. Svecica, (2): 34-36 (1791). TL — "Vestrobothnia et Lapponica". Loc. of type not known.

a. f. **freija** (Thunberg) *PAPILIO*. D. D. Dissert. Ent. Sist. Ins. Svecica, (2): 34-36 (1791). TL — "Vestrobothnia et Lapponica". Loc. of type not known. **586a.**

= *lapponica* (Esper) *PAPILIO*. Die Schmett., Suppl. Theils, 1: 21-22 [1793]. TL — "Lappland". Loc. of type not known.

= *freya* (Godart) *ARGYNNIS*. Encyc. Meth., 9: 254 [1819]. TL — "Vestrobothnia et Lapponica". Loc. of type not known. Proposed to replace *freija* Thunberg, thought to be preoccupied.

= ab. "gunderi" (Harper) *BRENTHIS*. Pan-Pac. Ent., 9: 99 (1933). TL — McCreary, Manitoba. HT in CAS.

b. f. **tarquinius** (Curtis) *MELITAEA*. *in* Ross, Append. Narr. 2nd Voy. Search North-West Pass. (Nat. Hist. Sect.): 68-69 (1835). TL not stated. ST's should be in BM. **586b.**

c. f. **natazhati** (Gibson) *BRENTHIS*. Rept. Canadian Arctic Exped., 3(i): 21i-22i, 52i, 56i (1920). TL — 141st meridian, N Mt. Natazhat, [Northwest Territories]. HT in CNC. **586c.**

d. f. **nabokovi** (D. Stallings and Turner) *BOLORIA*. Canadian Ent., 78: **586d.**

134-135 (1947). TL — Mi. 102, Alaska Military Hwy, British Columbia. HT in MCZ.

e. **f. browni** (Higgins) *BOLORIA*. The Entom., 86: 210 (1953). TL — Hall Valley, Park Co., Colorado. HT in AMNH. **586e.**

9. **alberta** (W. H. Edwards) *ARGYNNIS*. Canadian Ent., 22: 113-114 (1890). TL — Laggan, Alberta. LT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 91: 339 (1965). **587.**

= ab. "banffensis" (Gunder) *BRENTHIS*. Pan-Pac. Ent., 8: 125 (1932). TL — Banff, Alberta. HT in AMNH.

10. **astarte** (Doubleday and Hewitson) *MELITAEA*. Gen. diurn. Lepid., 1: pl. 23, fig. 5 [1847]. TL not stated. HT in BM [see **Note 474**].

a. **a. astarte** (Doubleday and Hewitson) *MELITAEA*. Gen. diurn. Lepid., 1: pl. 23, fig. 5 [1847]. TL not stated. HT in BM [see **Note 474**]. **588a.**

= *victoria* (W. H. Edwards) *ARGYNNIS*. Canadian Ent., 23: 198-199 (1891). TL — Laggan, Alberta. HT in CM.

b. **a. distincta** (Gibson) *BRENTHIS*. Rept. Canadian Arctic Exped., 3(i): 25i, 54i (1920). TL — Harrington Creek, Yukon Territory, lat. 65°05' N. HT in CNC. **588b.**

*11. **titania** (Esper) *P[APILIO]*. Die Schmett., Suppl. Theils, 1: 58-59 [1793]. TL — "Sardinia". Loc. of type not known.

a. **t. boisduvalii** (Duponchel) *ARGYNNIS*. *in* Godart, Hist. Nat. Lepid. ou Pap. de France, Suppl. to vols. 1-2: 127-128 [1832]. TL — "les countreés les septentrionales de l'Europe". Type may be in MNHN. Name may not apply to Nearctic insect. **589a.**

= ab. "labradorensis" (Gunder) *BRENTHIS*. Canadian Ent., 60: 163 (1928). TL — "Labrador". HT in USNM.

b. **t. rainieri** (Barnes and McDunnough) *BRENTHIS*. Contrib. Nat. Hist. Lepid. N. America, 2: 96-97, 148 (1913). TL — Mt. Ra[i]nier, Washington. ST's in USNM [see **Note 475**]. **589b.**

c. **t. grandis** (Barnes and McDunnough) *BRENTHIS*. Canadian Ent., 48: 223 (1916). TL — Hymers, Ontario. ST's in USNM. **589c.**

d. **t. montinus** (Scudder) *ARGYNNIS*. Proc. Essex Inst., 3: 166 (1863). TL — White Mtns., New Hampshire. ST's in MCZ. **589d.**

e. **t. ingens** (Barnes and McDunnough) *BRENTHIS*. Contrib. Nat. Hist. Lepid. N. America, 4: 71, 180 (1918). TL — "Sheridan, Idaho", but specimens are mentioned earlier from Yellowstone Natl. Park, Wyoming. ST's in USNM. **589e.**

= ab. "martini" (Gunder) *BRENTHIS*. Canadian Ent., 66: 127-128 (1934). TL — Teton trail, Teton Mtns., Teton Co., Wyoming. HT in AMNH.

f. **t. helena** (W. H. Edwards) *ARGYNNIS*. Trans. American Ent. Soc., 3: 268 (1871). TL — "Colorado", restricted to Mosquito Pass, Lake-Park Cos., Colorado, by F. M. Brown, Trans. American Ent. Soc., 91: 342-343 (1965). LT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 91: 344 (1965). **589f.**

*12. **chariclea** (Schneider) *PAPILIO*. Neu. Mag. f. Liebhaber Ent., 1: 588-589 (1794). TL not stated, but inferred to be Lappland. Loc. of type not known [see **Note 476**].

a. **c. arctica** (Zetterstedt) *A[RGYNNIS]*. Ins. Lapponica, (5): col. 899, no. 18 [1839]. TL — "Groenlandia". Loc. of type not known. **590a.**

= *oenone* (Scudder) *ARG[YNNIS]*. Proc. Boston Soc. Nat. Hist., 17: 297-299 (1875). TL — "Labrador; Fort Simpson, Great Slave Lake; Natashquam, Labrador and Colorado". ST's should be in MCZ.

= *obscurata* (M'Lachlan) *ARGYNNIS*. J. Linnean Soc. (Zool.), 14: 109-111 (1878). TL not stated, except as 81°42' N. Type probably in BM [see **Note 477**].

b. **c. butleri** (W. H. Edwards) *ARGYNNIS*. Canadian Ent., 15: 32-33 (1883). TL — Cape Thompson, Kotzebue Sound, W Alaska, restricted by F. M. Brown, Trans. American Ent. Soc., 91: 344-346 (1965). LT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 91: 346 (1965) [see **Note 478**]. **590b.**

Subfamily **Melitaeinae** Grote

Mitt. Roemer-Mus. Hildesheim, (8): 20 (1897) [see **Notes 1** and **479**].

Tribe **Melitaeini** Grote

Mitt. Roemer-Mus. Hildesheim, (8): 20 (1897) [see **Notes 1** and **479**].

Genus CXC: **Poladryas** Bauer

in P. and A. Ehrlich, How Know Butts.: 109, 130 (1961). Type-species by original designation "*Melitaea pola* Boisduval" (in error for *Melitaea arachne* W. H. Edwards, Trans. American Ent. Soc., 2: 372; 1869) [see **Note 480**].

1. **minuta** (W. H. Edwards) *MELITAEA*. Proc. Acad. Nat. Sci. Philadelphia, [1861]: 161 (1861). TL — Comfort, Kendall Co., Texas, restricted by F. M. Brown, Trans. American Ent. Soc., 92: 414 (1966). NT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 92: 417 (1966). May be now extinct *(fide* Kendall, *p. comm.)*. **591.**
   = *approximata* (Strecker) *MELITAEA*. Lepid. Rhop.-Het., Suppl. 3: 23 (1900). TL — "Texas". ST's in FMNH.
2. **arachne** (W. H. Edwards) *MELITAEA*. Trans. American Ent. Soc., 2: 372 (1869). TL — "Colorado", restricted to vic. Golden, Jefferson Co., Colorado, by F. M. Brown, Trans. American Ent. Soc., 92: 411 (1966). HT in FMNH [see **Note 482**].
   a. **a. arachne** (W. H. Edwards) *MELITAEA*. Trans. American Ent. Soc., 2: 372 (1869). TL — "Colorado", restricted to vic. Golden, Jefferson Co., Colorado, by F. M. Brown, Trans. American Ent. Soc., 92: 411 (1966). HT in FMNH [see **Notes 481** and **482**]. **592a.**
      = ab. "gunderiae" (Holland) *MELITAEA*. Butt. Book, rev. ed.: 128 (1931). TL not stated. HT in CM.
   b. **a. nympha** (W. H. Edwards) *MELITAEA*. Papilio, 4: 53 (1884). TL — "Arizona", restricted to vic. Ft. Grant, Graham Co., Arizona, by F. M. Brown, Trans. American Ent. Soc., 92: 417 (1966). NT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 92: 419 (1966). **592b.**
      = ab. "skinneri" (Oberthür) *MELITAEA*. Etudes Lepid. Comp., 20: 303 (1923). TL — Ft. Wingate, New Mexico. HT in USNM.
      = ab. "polingi" (Gunder) *MELITAEA*. Ent. News, 37: 2-3 (1926). TL — White Mtns., Arizona. HT in AMNH.
   c. **a. monache** (J. A. Comstock) *MELITAEA*. Lepidopterist, 2: 71 (1918). TL — Monache Meadows, Tulare Co., California. HT in LACM. **592c.**
      = *gilensis* (Holland) *MELITAEA*. Butt. Book, rev. ed.: 129 (1931). TL — Ft. Gila, S. Arizona. HT in CM.

Genus CXCI: **Thessalia** Scudder

Bull. Buffalo Soc. Nat. Sci., 2: 238, 265 (1875). Type-species by original designation *Melitaea leanira* C. and R. Felder, Wiener Ent. Monats., 4: 106 (1860) [see **Note 483**].

*1. **theona** (Ménétriés) *MELITAEA*. Enum. Corp. Anim. Mus. Petropolitana,

1: 86 (1855). TL — "Nicaragua". Type(s) may be in Leningrad [see Note 484].

a. **t. thekla** (W. H. Edwards) *MELITAEA*. Trans. American Ent. Soc., 3: 191 (1870). TL — "S. California", but corrected to vic. Old Ft. Lowell, nr. Tucson, Pima Co., Arizona, by F. M. Brown, Trans. American Ent. Soc., 92: 392-394 (1966). LT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 92: 395 (1966). **593a.**

= ab. "benjamini" (Gunder) *MELITAEA*. Canadian Ent., 60: 166 (1928). TL — "S. Arizona". HT in USNM.

b. **t. bolli** (W. H. Edwards) *MELITAEA*. Field and For., 3: 101-102 (1877). TL — San Antonio, Texas. HT in ANSP. **593b.**

2. **chinatiensis** (Tinkham) *MELITAEA*. Canadian Ent., 76: 12 (1944). TL — Chinati Mtns., Texas. Loc. of type not known (LACM?). **594.**

3. **cyneas** (Godman and Salvin) *MELITAEA*. Proc. Zool. Soc. London, [1878]: 269 (1878). TL — Oaxaca, Mexico. HT in BM. **595.**

= ab. "infrequens" (Gunder) *MELITAEA*. Canadian Ent., 60: 166 (1928). TL — Huachuca Mtns., Arizona. HT in USNM.

4. **fulvia** (W. H. Edwards) *MELITAEA*. Canadian Ent., 11: 117-118 (1879). TL — "W. Texas", restricted to Archer Co., Texas, by F. M. Brown, Trans. American Ent. Soc., 92: 390 (1966). LT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 92: 391 (1966). **596.**

= ab. "sinefasciata" (R. C. Williams) *MELITAEA*. Ent. News, 25: 265 (1914). TL — Jemez Mtns., New Mexico. HT in CM.

5. **leanira** (C. and R. Felder) *MELITAEA*. Wiener Ent. Monats., 4: 106 (1860). TL — "California", but certainly vic. San Francisco, California. HT probably in BM.

a. **l. leanira** (C. and R. Felder) *MELITAEA*. Wiener Ent. Monats., 4: 106 (1860). TL — "California", but certainly vic. San Francisco, California. HT probably in BM. **597a.**

= f. "obsoleta" (Hy. Edwards) *MELITAEA*. Proc. California Acad. Sci., 7: 171 (1877). TL — San Rafael, Marin Co., California. HT in AMNH.

= f. "leona" (W. G. Wright) *MELITAEA*. Butts. W. Coast: 160 (1905). TL — San Rafael, Marin Co., California. HT in CAS (see Tilden, Occ. Pap. California Acad. Sci., (118): 22; 1975).

= f. "daviesi" (Wind) *MELITAEA*. Pan-Pac. Ent., 23: 171 (1947). TL — Tuolumne Co., California. HT in CAS.

b. **l. wrighti** (W. H. Edwards) *MELITAEA*. Canadian Ent., 18: 64 (1886). TL — San Bernardino, San Bernardino Co., California. LT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 92: 389 (1966). **597b.**

= ab. "carolynae" (Gunder) *MELITAEA*. Ent. News, 37: 3 (1926). TL — Mint Canyon, Los Angeles Co., California. HT in AMNH.

= ab. "pelona" (Gunder) *MELITAEA*. Bull. S. California Acad. Sci., 29: 61 (1930). TL — Mint Canyon, Los Angeles Co., California. HT in LACM.

c. **l. cerrita** (W. G. Wright) *MELITAEA*. Butts. W. Coast: 161 (1905). TL — "S. California", but Bauer, *in* Howe, Butts. N. America: 168 (1975) suggests edge of Mojave Desert. LT in CAS, designated by Tilden, Occ. Pap. California Acad. Sci., (118): 22 (1985) [see Note 485]. **597c.**

d. **l. alma** (Strecker) *MELITAEA*. Lepid. Rhop.-Het.: 135 (1878). TL — "Arizona [and] S. Utah", here restricted to vic. St. George, Washington Co., Utah. HT in FMNH, according to label in Strecker colln. (ST?). **597d.**

= ab. "koebelei" (Gunder) *LEMONIAS*. Ent. News, 38: 136 (1927). TL — Argus Mtns., Inyo Co., California. HT in CAS.

Genus CXCII: **Chlosyne** Butler

Cistula Ent., 1: 38 (1870). Type-species, as replacement name, *Papilio janais* Drury, Ill. Nat. Hist., 3: index *et* 22 [1782]. Proposed to replace *Synchloe* Doubleday, List Spec. Lepid. Ins. Colln. British Mus., 1: 76 (1844); preoccupied.

= ‡*Synchloe* Doubleday, List. Spec. Lepid. Ins. Colln. British Mus., 1: 76 (1844). Type-species by designation of Scudder, Proc. American Acad. Arts Sci., 10: 141 (1875), *Papilio janais* Drury, Ill. Nat. Hist., 3: Index *et* 22 [1782]. Preoccupied by *Synchloe* Hübner, Zutr. z. Samml. exot. Schmett., 1: 26 (1818).

= *Coatlantona* W. F. Kirby, Syn. Cat. diurn. Lepid.: 176 (1871). Type-species, as replacement name, *Papilio janais* Drury, Ill. Nat. Hist., 3: Index *et* 22 [1782]. Proposed to replace *Synchloe* Doubleday (see above); preoccupied.

1. **californica** (W. G. Wright) *SYNCHLOE.* Butts. W. Coast: 170 (1905). TL — Colorado Desert, San Bernardino Co., California. LT in CAS, designated by Tilden, Occ. Pap. California Acad. Sci., (118): 24 (1975). 598.

= ab. "chinoi" Gunder. Ent. News, 35: 157 (1924). TL — Palm Springs, Riverside Co., California. HT in AMNH.

*2. **lacinia** (Geyer) *ARASCHNIA.* Zutr. z. Samml. exot. Schmett., 5: 25 [1837]. TL — "Mexico". Type probably lost [see **Note 486**].

= *tellias* (H. W. Bates) *SYNCHLOE.* Ent. Mo. Mag., 1: 84 (1864). TL — "Guatemala and Honduras". ST's in BM.

= *mediatrix* (C. and R. Felder) *SYNCHLOE.* Reise . . . Freg. Novara, 2(3): 395 (1865). TL — "Bogata". Type should be in BM.

= *ardema* (Reakirt) *SYNCHLOE.* Proc. Acad. Nat. Sci. Philadelphia, [1866]: 336 (1866). TL — "Mexico, nr. Vera Cruz". Loc. of type not known (CM?).

a. l. **crocale** (W. H. Edwards) *SYNCHLOE.* Trans. American Ent. Soc., 5: 17-18 (1874). TL — "White Mtns., Arizona"; [NE Ft. Apache, Navajo Co., Arizona], according to F. M. Brown, Trans. American Ent. Soc., 92: 407 (1966). LT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 92: 409 (1966). 599a.

= f. "nigrescens" (W. H. Edwards) *SYNCHLOE.* Canadian Ent., 25: 286 (1893). TL — Las Cruces, New Mexico. Loc. of type not known.

= f. "rufescens" (W. H. Edwards) *SYNCHLOE.* Canadian Ent., 25: 286 (1893). TL — Las Cruces, New Mexico. Loc. of type not known [see **Note 487**].

= ‡f. "rufescens" (T. Cockerell) *SYNCHLOE.* Canadian Ent., 26: 30 (1894). TL — Juarez, Mexico. Loc. of type not known. Preoccupied by "*rufescens*" (W. H. Edwards) (see above).

= f. "flavida" Higgins. Trans. R. Ent. Soc. London, 112: 409 (1960). TL — Juarez, Mexico. Loc. of type not known; proposed to replace "rufescens" (T. Cockerell) (see above); preoccupied.

= f. "rufa" (T. Cockerell) *SYNCHLOE. in* W. H. Edwards, Canadian Ent., 25: 286 (1893). TL — Juarez, Mexico. Type probably did not exist (color f. of larva).

= f. "bicolor" (T. Cockerell) *SYNCHLOE. in* W. H. Edwards, Canadian Ent., 25: 286 (1893). TL — Juarez, Mexico. Type probably did not exist (color f. of larva).

= f. "nigra" (T. Cockerell) *SYNCHLOE. in* W. H. Edwards, Canadian Ent., 25: 286 (1893). TL — Juarez, Mexico. Type probably did not exist (color f. of larva).

= ab. "inghami" Gunder. Canadian Ent., 60: 167 (1928). TL — Mesa, Arizona. HT in AMNH.

b. l. **adjutrix** Scudder. Bull. Buffalo Soc. Nat. Sci., 2: 269 (1875). TL — "Texas". HT may be in MCZ or Buffalo Mus. Sci. 599b.

3. **definita** (E. M. Aaron) *MELITAEA*. Papilio, 4: 176 (1884). TL — inland from Corpus Christi, Texas. ST's in ANSP and FMNH. 600.
= *schausi* (Godman and Salvin) *MELITAEA*. Biol. Cent.-Americana, Lepid. Rhop., 2: 676 (1901). TL — "Vera Cruz, Mexico". HT in BM.
= ‡*beckeri* (Godman and Salvin) *MELITAEA*. Biol. Cent.-Americana, Lepid. Rhop., 2: 676 (1901). TL — Durango, Mexico. HT in BM. Preoccupied by *beckeri* Herrich-Schäffer, Syst. Bearb. Schmett. Europa, 6: 1 (1851).
= *anastasia* (Hemming) *MELITAEA*. Stylops, 3: 193 (1934). TL — Durango, Mexico. HT in BM. Proposed as replacement for *beckeri* (Godman and Salvin) (see above).
= ab. "albiplaga" (E. M. Aaron) *MELITAEA*. Papilio, 4: 175-176 (1884). TL — inland from Corpus Christi, Texas. HT in ANSP [see **Note 488**].

4. **endeis** (Godman and Salvin) *SYNCHLOE*. Ann. Mag. Nat. Hist., (6)14: 97 (1894). TL — Sierra Madre de Tepic, Mexico. HT in BM. 601.
= f. "pardelina" Higgins. Trans. R. Ent. Soc. London, 112: 420 (1960). TL — La Gloria, S Montclova, Coahuila, Mexico. HT in AMNH.

5. **erodyle** (H. W. Bates) *SYNCHLOE*. Ent. Mo. Mag., 1: 84 (1864). TL — "interior of Guatemala". HT in BM. 602.

6. **janais** (Drury) *PAPILIO*. Ill. Nat. Hist., 3: index *et* 22 [1782]. TL — "Sierra Leone", in error for Central America, possibly Honduras. Type lost [see **Note 99**]. 603.

*7. **rosita** Hall. Entomologist, 57: 241 (1924). TL — "W. Guatemala". HT in BM.
a. **r. browni** Bauer. J. Lepid. Soc., 14: 150-152 (1960). TL — El Salto, 1600 ft., San Luis Potosí, Mexico. HT in YPM. 604a.

Genus CXCIII: **Charidryas** Scudder

4th Ann. Rept. Peabody Acad. Sci., [1871]: 47 (1872). Type-species by original designation *Melitaea nycteis* Doubleday and Hewitson, Gen. diurn. Lepid., 1: pl. 23, fig. 3 [1847] [see **Note 483**].
= ‡*Limnaecia* Scudder, 4th Ann. Rept. Peabody Acad. Sci., [1871]: 47 (1872). Type-species by original designation *Melitaea harrisii* Scudder, Proc. Essex Inst., 3: 167 (1864). Preoccupied by *Limnaecia* Stainton, Suppl. Tineid. Pterophor.: 4 (1851).

1. **gorgone** (Hübner) *DRYAS*. Samml. exot. Schmett., 1: pl. 41 (1810). TL — probably coastal Georgia. Type lost [see **Notes 9** and **489**].
a. **g. gorgone** (Hübner) *DRYAS*. Samml. exot. Schmett., 1: pl. 41 (1810). TL — probably coastal Georgia. Type lost [see **Note 9**]. 605a.
b. **g. carlota** (Reakirt) *PHYCIODES*. Proc. Ent. Soc. Philadelphia, 6: 141 (1866). TL — "Illinois and Missouri", restricted to Cedar Hill, Jefferson Co., Missouri, by F. M. Brown, Bull. Allyn Mus., (16): 4 (1974). NT in AME, designated by F. M. Brown, Bull. Allyn Mus., (16): 4 (1974) [see **Note 490**]. 605b.
= ab. "nigra" (Cary) *PHYCIODES*. Canadian Ent., 33: 307 (1901). TL — "Nebraska". Loc. of type not known.
= ab. "nox" (Gunder) *PHYCIODES*. Canadian Ent., 60: 167 (1928). TL — Brownsville, Texas. HT in USNM.

2. **nycteis** (Doubleday and Hewitson) *MELITAEA*. Gen. diurn. Lepid., 1: pl. 23, fig. 3 [1847]. TL — "middle states", according to Doubleday, Gen. diurn. Lepid., 1: 181 [1848]. HT in BM [see **Note 491**].
a. **n. nycteis** (Doubleday and Hewitson) *MELITAEA*. Gen. diurn. Lepid., 1: pl. 23, fig. 3 [1847]. TL — "middle states", according to Doubleday, Gen. diurn. Lepid., 1: 181 [1848]. HT in BM. 606a.
= *oenone* (Scudder) *MELITAEA*. Proc. Essex Inst., 3: 166 (1864). TL —

Lenox and Williamstown, Massachusetts; Norway, Maine. ST's should be in MCZ.

= ab. "milburni" (C. Rummel) *PHYCIODES*. Bull. Brooklyn Ent. Soc., 21: 203 (1926). TL — Milburn, New Jersey. Loc. of type not known.

= ab. "lacteus" (Gunder) *PHYCIODES*. Canadian Ent., 60: 166 (1928). TL — St. Louis, Missouri. HT in AMNH.

= ab. "greyi" (Field) *PHYCIODES*. Canadian Ent., 66: 256 (1934). TL — Lawrence, Kansas. HT in USNM.

b. **n. drusius** (W. H. Edwards) *PHYCIODES*. Papilio, 4: 57 (1884). TL — "Colorado and Arizona", restricted to Turkey Creek Junction, Jefferson Co., Colorado, by F. M. Brown, Trans. American Ent. Soc., 92: 400 (1966). LT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 92: 402 (1966). **606b.**

= ab. "hewitsoni" (Field) *PHYCIODES*. J. Ent. Zool. (Pomona Coll.), 28: 23 (1936). TL — Greaterville, Arizona. HT in USNM.

c. **n. reversa** (F. and R. Chermock) *MELITAEA*. Canadian Ent., 72: 83 (1940). TL — Riding Mtns., Manitoba. HT in CNC. **606c.**

3. **harrisii** (Scudder) *PHYCIODES*. Proc. Essex Inst., 3: 167 (1864). TL — Norway, Maine; Pittsfield, New Hampshire; Sutton and Princeton, Massachusetts. ST's should be in MCZ [see **Note 492**].

a. **h. harrisii** (Scudder) *PHYCIODES*. Proc. Essex Inst., 3: 167 (1864). TL — Norway, Maine; Pittsfield, New Hampshire; Sutton and Princeton, Massachusetts. ST's should be in MCZ [see **Note 492**]. **607a.**

= *albimontana* (Avinoff) *MELITAEA*. Ann. Carnegie Mus., 19: 163 (1930). TL — White Mtns., New Hampshire. ST's in CM.

b. **h. liggetti** (Avinoff) *MELITAEA*. Ann. Carnegie Mus., 19: 161 (1930). TL — Cook's Forest, W. Pennsylvania. ST's in CM. **607b.**

c. **h. hanhami** (Fletcher) *PHYCIODES*. Canadian Ent., 36: 122 (1904). TL — Bird Hill, near Winnipeg, Manitoba. ST in USNM (HT?). **607c.**

palla-group

4. **palla** (Boisduval) *MELITAEA*. Ann. Soc. Ent. France, (2)10: 305 (1852). TL — "Dans une grande partie de la Californie", here restricted to vic. San Francisco, California. HT apparently in USNM [see **Note 22**].

a. **p. palla** (Boisduval) *MELITAEA*. Ann. Soc. Ent. France, (2)10: 305 (1852). TL — "Dans une grande partie de la Californie", here restricted to vic. San Francisco, California. HT apparently in USNM [see **Note 22**]. **608a.**

= f. "eremita" (W. G. Wright) *MELITAEA*. Butts. W. Coast: 157 (1905). TL — "central California". LT in CAS, designated by Tilden, Occ. Pap. California Acad. Sci., (118): 21 (1975).

= ab. "wardi" (Oberthür) *MELITAEA*. Etudes Lepid. Comp., 9: 79 (1914). TL — "Californie". HT in USNM.

= ab. "stygiana" (J. A. Comstock) *MELITAEA*. Bull. S. California Acad. Sci., 25: 32 (1926). TL — Willow Ranch, Modoc Co., California. HT in LACM.

= ab. "blackmorei" (Gunder) *MELITAEA*. Ent. News, 37: 6 (1926). TL — Lytton, British Columbia. HT in AMNH.

= ab. "hemifusa" (Gunn) *MELITAEA*. Ent. News, 41: 17 (1930). TL — Cazadero, Sonoma Co., California. HT in CAS [see **Note 493**].

b. **p. whitneyi** (Behr) *MELITAEA*. Proc. California Acad. Nat. Sci., 3: 88 (1863). TL — "Sierra Nevada, California". Type destroyed in 1906 earthquake and fire [see **Note 494**]. **608b.**

= ab. "vanduzeei" (Gunder) *MELITAEA*. Canadian Ent., 60: 165

(1928). TL — Portola, California. HT in CAS.

c. **p. vallismortis** (J. W. Johnson) *MELITAEA* (emended) [see **Note 495**]. Bull. S. California Acad. Sci., 37: 18 (1938). TL — Tuber Canyon, Panamint Range, Death Valley, California. HT in LACM. **608c.**

d. **p. calydon** (Holland) *MELITAEA*. Butt. Book, rev. ed.: 125 (1931). TL — Turkey Creek Junction, Jefferson Co., Colorado. ST's in CM [see **Note 496**]. **608d.**

e. **p. flavula** (Barnes and McDunnough) *MELITAEA*. Contrib. Nat. Hist. Lepid. N. America, 4: 73-74 (1918). TL — here restricted to Glenwood Springs, Colorado. ST's in USNM. **608e.**

f. **p. sterope** (W. H. Edwards) *MELITAEA*. Trans. American Ent. Soc., 3: 190-191 (1870). TL — "Oregon", restricted to Tygh Valley, Wasco Co., Oregon, by Bauer, *in* Howe, Butts. N. America: 157 (1975). LT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 92: 407 (1966). **608f.**

= *hewesi* (Leussler) *MELITAEA*. Ent. News, 42: 12 (1931). TL — Tygh, Oregon, HT probably in Ohio St. Univ. colln.

= f. "dorothyae" Bauer (emendation). *in* Howe, Butts. N. America: 157 (1975). TL — Burnt and Snake R. Canyons, Oregon. Loc. of type not known [see **Note 497**].

5. **acastus** (W. H. Edwards) *MELITAEA*. Trans. American Ent. Soc., 5: 16-17 (1874). TL — "Montana, Nevada, S. Utah", restricted to Provo Canyon, Utah Co., Utah, by F. M. Brown, Trans. American Ent. Soc., 92: 402 (1966). LT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 99: 404 (1966). **609.**

= ab. "pearlae" (Gunder) *MELITAEA*. Ent. News, 37: 5 (1926). TL — Casa Diablo Hills, Mono Co., California. HT in AMNH.

6. **neumoegeni** (Skinner) *MELITAEA*. Ent. News, 6: 113 (1895). TL — "Utah", but type from Virgin R. Valley, Washington Co., Utah. HT in CM.

a. **n. neumoegeni** (Skinner) *MELITAEA*. Ent. News, 6: 113 (1895). TL — "Utah", but type from Virgin R. Valley, Washington Co., Utah. HT in CM. **610a.**

= ab. "fridayi" (Gunder) *MELITAEA*. Canadian Ent., 64: 283 (1932). TL — Little Rock, Los Angeles Co., California. HT in AMNH.

= ab. "boharti" (Gunder) *MELITAEA*. Canadian Ent., 65: 163 (1933). TL — Little Rock, Los Angeles Co., California. HT in AMNH.

b. **n. sabina** (W. G. Wright) *MELITAEA*. Butts. W. Coast: 159 (1905). TL — Sabino Canyon, Sta. Catalina Mtns., Arizona. HT in CAS. **610b.**

7. **gabbi** (Behr) *MELITAEA*. Proc. California Acad. Nat. Sci., 3: 89 (1863). TL — mtns. near Los Angeles, California. Type destroyed in 1906 San Francisco earthquake and fire. **611.**

= *sonorae* (Boisduval) *MELITAEA*. Ann. Soc. Ent. Belgique, 12: 56 (1869). TL — "Sonora", probably vic. Los Angeles, California. HT apparently in USNM [see **Note 22**].

= ab. "pasadenae" (Gunder) *MELITAEA*. Ent. News, 35: 155 (1924). TL — Pasadena, Los Angeles Co., California. HT in AMNH.

= ab. "gunderi" (J. A. Comstock) *MELITAEA*. Bull. S. California Acad. Sci., 25: 33 (1926). TL — San Fernando, California. HT in LACM [see **Note 498**].

= ab. "newcombi" (J. A. Comstock) *MELITAEA*. Bull. S. California Acad. Sci., 25: 33 (1926). TL — vic. Pasadena, California. HT in LACM [see **Note 498**].

8. **damoetas** (Skinner) *MELITAEA*. Ent. News, 13: 304 (1902). TL — "Williams River Range" (=Williams Fork Range), Summit/Grand Cos., Colorado. HT in CM.

a. **d. damoetas** (Skinnner) *MELITAEA*. Ent. News, 13: 304 (1902). TL — **612a.**

"Williams River Range" (=Williams Fork Range), Summit/Grand Cos., Colorado. HT in CM.

= ab. "damoetella" (McDunnough) *MELITAEA*. Canadian Ent., 59: 160 (1927). TL — Mt. McLean, vic. Lillooet, British Columbia. HT in CNC.

b. **d. malcolmi** (J. A. Comstock) *MELITAEA*. Bull. S. California Acad. Sci., 25: 33 (1926). TL — Mammoth, Mono Co., California. HT in LACM. **612b.**

9. **hoffmanni** (Behr) *MELITAEA*. Proc. California Acad. Nat. Sci., 3: 89 (1863). TL — "Sierra Nevada", California. Type destroyed in 1906 San Francisco earthquake and fire.

a. **h. hoffmanni** (Behr) *MELITAEA*. Proc. California Acad. Nat. Sci., 3: 89 (1863). TL — "Sierra Nevada", California. Type destroyed in 1906 San Francisco earthquake and fire. **613a.**

= *helicta* (Boisduval) *MELITAEA*. Ann. Soc. Ent. Belgique, 12: 55-56 (1869). TL — "Elle se trouve les contrées du Sud...", taken on Lorquin's southern trip when he visited as far south as Los Angeles, "Sonora". HT apparently in USNM [see **Note 22**].

= ab. "abnorma" (W. G. Wright) *MELITAEA*. Butts. W. Coast: 160 (1905). TL — Truckee, California. HT in CAS.

= ab. "hollandae" (Gunder) *MELITAEA*. Canadian Ent., 60: 166 (1928). TL — Summit, California. HT in CM.

b. **h. segregata** (Barnes and McDunnough) *MELITAEA*. Contribs. Nat. Hist. Lepid. N. America, 4: 72-73 (1918). TL — Crater Lake, Klamath Co., Oregon. HT in USNM. **613b.**

= *bridgei* (J. A. Comstock) *MELITAEA*. Bull. S. California Acad. Sci., 23: 173-174 (1924). TL — Crater Lake, Klamath Co., Oregon. HT in LACM.

c. **h. manchada** Bauer. J. Lepid. Soc., 13: 208-210 (1959). TL — Tumwater Canyon, Drury, Chelan Co., Washington. HT in LACM. **613c.**

Genus CXCIV: **Microtia** H. W. Bates

Ent. Mo. Mag., 1: 83 (1864). Type-species by monotypy *Microtia elva* H. W. Bates, Ent. Mo. Mag., 1: 83 (1864).

1. **elva** H. W. Bates. Ent. Mo. Mag., 1: 83 (1864). TL — "Guatemala". HT in BM. **614.**

Genus CXCV: **Dymasia** Higgins

Trans. R. Ent. Soc. London, 112: 455-456 (1960). Type-species by original designation *Melitaea dymas chara* W. H. Edwards, Canadian Ent., 15: 209 (1883) [see **Notes 483** and **499**].

1. **dymas** (W. H. Edwards) *MELITAEA*. Canadian Ent., 9: 190-191 (1877). TL — San Antonio, Texas. LT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 92: 380 (1966).

a. **d. dymas** (W. H. Edwards) *MELITAEA*. Canadian Ent., 9: 190-191 (1877). TL — San Antonio, Texas. LT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 92: 380 (1966). **615a.**

= *larunda* (Strecker) *MELITAEA*. Lepid. Rhop.-Het.: 130 [1878] ("1877"). TL — San Antonio, Texas. ST's in FMNH.

= *senrabii* (Barnes) *MELITAEA*. Canadian Ent., 32: 43 (1900). TL — Corpus Christi, Texas. HT in USNM.

b. **d. chara** (W. H. Edwards) *MELITAEA*. Canadian Ent., 15: 209-210 (1883). TL — "southern Arizona", restricted to vic. Tucson, Pima Co., Arizona, by F. M. Brown, Trans. American Ent. Soc., 92: 380 (1966). LT in USNM, designated by F. M. Brown, Trans. American Ent. Soc., 92: 382 (1966). **615b.**

c. **d. imperialis** (Bauer) *MICROTIA*. J. Lepid. Soc., 12: 98-99 [1959] ("1958"). TL — Palm Springs, Riverside Co., California. HT in LACM. **615c.**
= ab. "jacintoi" (Gunder) *MELITAEA*. Ent. News, 35: 154 (1924). TL — Mt. San Jacinto, Palm Springs, California. HT in AMNH.
= ab. "nitela" (J. A. Comstock) *MELITAEA*. Bull. S. California Acad. Sci., 25: 33 (1926). TL — vic. Palm Springs, Coachella Valley, Los Angeles Co., California. HT in LACM.

Genus CXCVI: **Texola** Higgins

Lepid. News, 12: 161 [1959] ("1958"). Type-species by original designation *Eresia elada* Hewitson, Exot. Butts., 4: Eresia 7, figs. 54, 55 (1868) [see **Note 483**].

*1. **elada** (Hewitson) *ERESIA*. Exot. Butts., 4: Eresia 7, figs. 54, 55 (1868). TL — "Mexico". HT in BM.

a. **e. ulrica** (W. H. Edwards) *MELITAEA*. Canadian Ent., 9: 189-190 (1877). TL — San Antonio, Texas, LT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 92: 385 (1966). **616a.**
= *imitata* (Strecker) *MELITAEA*. Lepid. Rhop.-Het.: 130 [1878] ("1877"). TL — San Antonio, Texas. ST's in FMNH.

b. **e. perse** (W. H. Edwards) *MELITAEA*. Papilio, 2: 136 (1882). TL — vic. Fort Grant, Graham Co., Arizona. LT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 92: 386-387 (1966). **616b.**

Genus CXCVII: **Anthanassa** Scudder

Bull. Buffalo Soc. Nat. Sci., 2: 239 (1875). Type-species by original designation "*Eresia cincta* W. H. Edwards", in error (=*Melitaea texana* W. H. Edwards, Proc. Ent. Soc. Philadelphia, 2: 81; 1863). *Anthanassa* and *texana* both conserved by I. C. Z. N. (Op. 839) (see Bull. Zool. Nomen., 24: 337-338 (1968) [see **Note 500**].
= *Tritanassa* Forbes, Ent. Americana (n. s.), 24: 171 (1945). Type-species by original designation *Eresia drusilla* C. and R. Felder, Wiener Ent. Monats., 5: 103 (1861).

1. **texana** (W. H. Edwards) *MELITAEA*. Proc. Ent. Soc. Philadelphia, 2: 81 (1863). TL — "Texas", restricted to New Braunfels, Comal Co., Texas, by F. M. Brown, Trans. American Ent. Soc., 92: 421 (1966). Apparent HT in CM.

a. **t. texana** (W. H. Edwards) *MELITAEA*. Proc. Ent. Soc. Philadelphia, 2: 81 (1863). TL — "Texas", restricted to New Braunfels, Comal Co., Texas, by F. M. Brown, Trans. American Ent. Soc., 92: 421 (1966). Apparent HT in CM. **617a.**
= *smerdis* (Hewitson) *ERESIA*. Exot. Butts., 3: Eresia 5, figs. 33, 34 (1864). TL — "Mexico". HT in BM.

b. **t. seminole** (Skinner) *ERESIA*. Ent. News, 22: 142 (1911). TL — Bainbridge, Georgia. HT in CM. **617b.**

2. **frisia** (Poey) *MELITEA* [*sic.*]. Cent. Lepid. Cuba, (2): 3 (1832). TL — "Cuba". HT in ANSP. **618.**
= *gyges* (Hewitson) *ERESIA*. Ill. Exot. Butts., 3: Eresia 6, figs. 45, 46 (1864). TL — "Jamaica". HT in BM.

3. **ptolyca** (H. W. Bates) *MELITAEA*. Ent. Mo. Mag., 1: 81 (1864). TL — Chisoy Valley, Guatemala. HT in BM. **619.**

4. **tulcis** (H. W. Bates) *MELITAEA*. Ent. Mo. Mag., 1: 82 (1864). TL — Central Valley, Guatemala. HT in BM. **620.**
= *genigueh* (Reakirt) *ERESIA*. Proc. Ent. Soc. Philadelphia, 5: 225 (1865). TL — "Los Angeles, Cala." (in error), probably from Nicaragua. ST's

in FMNH.

= *archesilea* (R. Felder) *ERESIA*. Verh. zool.-bot. Ges. Wien, 19: 471 (1869). TL — "Mexico". HT probably in BM.

= *punctata* (W. H. Edwards) *ERESIA*. Trans. American Ent. Soc., 3: 191 (1870). TL — "southern Arizona", probably northern Mexico, according to F. M. Brown, Trans. American Ent. Soc., 92: 425-428 (1966). HT in CM [see **Note 501**].

Genus CXCVIII: **Phyciodes** Hübner

Verz. bekannt. Schmett., (2): 29 [1819]. Type-species by designation of Scudder, 4th Ann. Rept. Peabody Acad. Sci., [1871]: 46 (1872), *Papilio cocyta* Cramer, Uitl. Kapellen, 2: 7 [1777] (=*Papilio tharos* Drury, Ill. Nat. Hist., 1: index et 43 [1773]).

1. **vesta** (W. H. Edwards) *MELITAEA*. Trans. American Ent. Soc., 2: 371-372 (1869). TL — "Texas", restricted to New Braunfels, Comal Co., Texas, by F. M. Brown, Trans. American Ent. Soc., 92: 461-462 (1966). NT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 92: 463-464 (1966). **621.**

= *boucardi* Godman and Salvin. Proc. Zool. Soc. London, [1878]: 268 (1878). TL — Putla, Mexico. HT in BM.

= ‡f. "hiemalis" W. H. Edwards. Butts. N. America, 2: [181, pl. 32], figs. 18-19, not 20-21 as stated in text (1878). TL — "Texas". Type not designated. Preoccupied by *hiemalis* W. H. Edwards, Butts. N. America, 2: [179, pl. 32], figs. 14-15, not 16-17 as stated in text (1878).

= ‡f. "aestiva" W. H. Edwards. Butts. N. America, 2: [182, pl. 32], figs. 20-21, not 18-19 as stated in text (1878). TL — "Texas". Type not designated. Preoccupied by *aestiva* W. H. Edwards, Butts. N. America, 2: [179-180, pl. 32], figs. 16-17, not 14-15 as stated in text (1878) [see **Note 502**].

2. **phaon** (W. H. Edwards) *MELITAEA*. Proc. Ent. Soc. Philadelphia, 2: 505-506 (1864). TL — "St. Simons Island and Northern Georgia", restricted to St. Simons Island, Glynn Co., Georgia, by F. M. Brown, Trans. American Ent. Soc., 92: 434 (1966). NT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 92: 437 (1966) [see **Note 503**]. **622.**

= *gorgone* (Hübner) *DRYAS*. Samml. exot. Schmett., 1: pl. [41] [1810]. ♀ only.

= f. "hiemalis" W. H. Edwards. Butts. N. America, 2: [179, pl. 32], figs. 14-15, not 16-17 as stated in text (1878). TL — "St. Simons Island, Glynn Co., Georgia." Type not designated.

= f. "aestiva" W. H. Edwards. Butts. N. America, 2: [179-180, pl. 32], figs. 16-17, not 14-15 as stated in text (1878). TL — St. Simons Island, Glynn Co., Georgia. Type not designated [see **Notes 502** and **503**].

= ab. "nox" Gunder. Canadian Ent., 60: 167 (1928). TL — Brownsville, Texas. HT in USNM.

= ab. "thornei" Gunder. Canadian Ent., 66: 130-131 (1934). TL — Chula Vista, San Diego Co., California. HT in AMNH.

3. **tharos** (Drury) *PAPILIO*. Ill. Nat. Hist., 1: index et 43 [1773]. TL — "New York", probably vic. New York, New York. Type sold and lost [see **Notes 99, 504, 505** and **506**].

a. **t. arctica** dos Passos. Canadian Ent., 67: 87 (1935). TL — Table Mtn., Port au Port, Newfoundland. HT in AMNH [see **Note 502**]. **623a.**

b. **t. tharos** (Drury) *PAPILIO*. Ill. Nat. Hist., 1: index *et* 43 [1773]. TL — "New York", probably vic. New York, New York. Type sold and lost [see **Notes 99, 504, 505** and **506**]. **623b.**

= *cocyta* (Cramer) *PAPILIO*. Uitl. Kapellen, 2: 7 [1777]. TL not stated. Type probably lost [see **Note 7**].

= *euclea* (Bergsträsser) *PAPILIO*. Nomencl. Beschr. Ins. Grafschaf Hanau-Münzenberg, 4: 23 (1780). TL — "America". Loc. of type not know (lost?).

= *selenis* (W. Kirby) *MELITAEA*. Fauna Bor.-Americana, 4: 289 (1837). TL — "North America". Loc. of type not known (Dublin? lost? BM?).

= spring f. "morpheus" (Fabricius) *PAPILIO*. Syst. Ent.: 530 (1775). TL — "America boreali", probably New York, New York. Type lost [see **Note 508**].

= spring f. "marcia" (W. H. Edwards) *MELITAEA*. Trans. American Ent. Soc., 2: 207-209 (1868). TL — "New York to Louisiana", restricted to Hunter, Greene Co., New York, by F. M. Brown, Trans. American Ent. Soc., 92: 432 (1966). LT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 92: 433 (1966).

= ab. "packardii' Saunders. *in* Packard, Guide Stud. Ins.: 256 (1869). TL — "Canada". Type may be in CNC.

= ab. "reaghi" Reiff. Ent. News, 24: 305 (1913). TL — Franklin, Massachusetts. HT in USNM.

= ab. "dyari" Gunder. Canadian Ent., 60: 167 (1928). TL — Webster, New Hampshire. HT in USNM.

c. t. **distincta** Bauer. *in* Howe, Butts. N. America: 144 (1975). TL — Calexico, Imperial Valley, California. Type(s) apparently in Bauer colln. [see **Note 509**]. **623c.**

d. t. **pascoensis** W. G. Wright. Butts. W. Coast: 165 (1905). TL — Pasco, Washington. LT in CAS, designated by Tilden, Occ. Pap. California Acad. Sci., (118): 23 (1975). **623d.**

4. **batesii** (Reakirt) *ERESIA*. Proc. Ent. Soc. Philadelphia, 5: 226-227 (1865). TL — restricted to Gloucester, New Jersey by Klots, Field Guide Butts.: 100 (1951). ST's in FMNH [see **Note 510**]. **624.**

5. **pratensis** (Behr) *MELITAEA*. Proc. California Acad. Nat. Sci., 3: 86-87 (1863). TL — vic. San Francisco, California. Type(s) destroyed in 1906 San Francisco earthquake and fire [see **Notes 511** and **512**].

a. **p. pratensis** (Behr) *MELITAEA*. Proc. California Acad. Nat. Sci., 3: 86-87 (1863). TL — vic. San Francisco, California. Type(s) destroyed in 1906 San Francisco earthquake and fire [see **Notes 512** and **513**]. **625a.**

= *campestris* (Behr) *MELITAEA*. Proc. California Acad. Nat. Sci., 3: 86 (1863). TL not stated, but vic. San Francisco, California, by implication. Type(s) destroyed in 1906 San Francisco earthquake and fire.

= ab. "mcdunnoughi" Gunder. Canadian Ent., 60: 167 (1928). TL — Olds, Northwest Territories. HT in CNC [see **Note 513**].

b. **p. montana** (Behr) *MELITAEA*. Proc. California Acad. Nat. Sci., 3: 85-86 (1863). TL — "vic. Los Angeles, headwaters of Tuolumne R., Yosemite Valley", California. Type(s) destroyed in 1906 San Francisco earthquake and fire [see **Note 514**]. **625b.**

= *orsa* (Boisduval) *MELITAEA*. Ann. Soc. Ent. Belgique, 12: 55 (1869). TL — "interieur de la Californie". HT apparently in USNM [see **Note 22**].

c. **p. camillus** W. H. Edwards. Trans. American Ent. Soc., 3: 268-269 (1871). TL — "Colorado", restricted to Fairplay, Park Co., Colorado, by F. M. Brown, Trans. American Ent. Soc., 92: 451 (1966). LT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 92: 453 (1966). **625c.**

= *emissa* W. H. Edwards. Trans. American Ent. Soc., 3: 269-270 (1871). TL — "Colorado", restricted to Denver, Denver Co., Colorado, by F. M. Brown, Trans. American Ent. Soc., 92: 453 (1966). LT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 92: 455 (1966).

= ab. "rohweri" T. Cockerell. Entomologist, 46: 308 (1913). TL — Boulder, Boulder Co., Colorado. HT in USNM.

= ab. "tristis" T. Cockerell. Entomologist, 46: 308 (1913). TL — Jim Creek, Boulder Co., Colorado. HT in USNM.

6. **picta** (W. H. Edwards) *MELITAEA*. Proc. Ent. Soc. Philadelphia, 4: 201 (1865). TL — "Nebraska Territory", restricted to North Platte, Lincoln Co., Nebraska, by F. M. Brown, Trans. American Ent. Soc., 92: 455 (1966). LT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 92: 457 (1966).

a. **p. picta** (W. H. Edwards) *MELITAEA*. Proc. Ent. Soc. Philadelphia, 4: 201 (1865). TL — "Nebraska Territory", restricted to North Platte, Lincoln Co., Nebraska, by F. M. Brown, Trans. American Ent. Soc., 92: 455 (1966). LT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 92: 457 (1966). **626a.**

= ab. "jemezensis" Brehme. Ent. News, 24: 194 (1913). TL — Jemez Springs, New Mexico. Loc. of type not known (USNM?).

b. **p. canace** W. H. Edwards. Trans. American Ent. Soc., 3: 206-207 (1871). TL — "southern California", corrected to "Arizona" by W. H. Edwards and restricted to vic. of Tucson, Pima Co., Arizona, by F. M. Brown, Trans. American Ent. Soc., 92: 459 (1966). NT in FMNH, designated by F. M. Brown, Trans. American Ent. Soc., 92: 461 (1966). **626b.**

7. **orseis** W. H. Edwards. Trans. American Ent. Soc., 3: 206 (1871). TL — Mt. St. Helena, Napa Co., California. LT in AMNH, designated by F. M. Brown, Trans. American Ent. Soc., 92: 450-451 (1966).

a. **o. orseis** W. H. Edwards. Trans. American Ent. Soc., 3: 206 (1871). TL — Mt. St. Helena, Napa Co., California. LT in AMNH, designated by F. M. Brown, Trans. American Ent. Soc., 92: 450-451 (1966). **627a.**

= ab. "edwardsi" Gunder. Ent. News, 38: 135 (1927). TL — "California". HT in USNM.

b. **o. herlani** Bauer. *in* Howe, Butts. N. America: 148 (1975). TL — Glenbrook Creek, Douglas Co., Nevada. HT in Bauer colln. [see **Note 515**]. **627b.**

8. **pallida** (W. H. Edwards) *MELITAEA*. Proc. Ent. Soc. Philadelphia, 2: 505 (1864). TL — "Texas, Kansas", restricted to Flagstaff Mt., Boulder Co., Colorado, by F. M. Brown, Trans. American Ent. Soc., 92: 443 (1966). NT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 92: 448 (1966).

a. **p. pallida** (W. H. Edwards) *MELITAEA*. Proc. Ent. Soc. Philadelphia, 2: 505 (1864). TL — "Texas, Kansas", restricted to Flagstaff Mt., Boulder Co., Colorado, by F. M. Brown, Trans. American Ent. Soc., 92: 443 (1966). NT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 92: 448 (1966). **628a.**

= f. "mata" (Reakirt) *ERESIA*. Proc. Ent. Soc. Philadelphia, 6: 142 (1866). TL — "Rocky Mtns., Colorado". HT in FMNH.

b. **p. barnesi** Skinner. Canadian Ent., 29: 155 (1897). TL — Glenwood Springs, Colorado. HT in CM. **628b.**

9. **mylitta** (W. H. Edwards) *MELITAEA*. Proc. Acad. Nat. Sci. Philadelphia, 13: 160-161 (1861). TL — "Texas; Kansas; California", restricted to vic. San Francisco, California, by F. M. Brown, Trans. American Ent. Soc., 92: 439 (1966). NT in CAS, designated by F. M. Brown, Trans. American Ent. Soc., 92: 442 (1966).

a. **m. mylitta** (W. H. Edwards) *MELITAEA*. Proc. Acad. Nat. Sci. Philadelphia, 13: 160-161 (1861). TL — "Texas; Kansas; California", restricted to vic. San Francisco, California, by F. M. Brown, Trans. American Ent. Soc., 92: 439 (1966). NT in CAS, designated by F. M. Brown, Trans. American Ent. Soc., 92: 442 (1966) [see **Note 516**]. **629a.**

= *collina* (Behr) *MELITAEA*. Proc. California Acad. Nat. Sci., 3: 86 (1863). TL — "California". Type destroyed in 1906 San Francisco

earthquake and fire.

= *epula* (Boisduval) *MELITAEA*. Ann. Soc. Ent. Belgique, 12: 54 (1869). TL — "l'interieur de la Californie". Loc. of type not known (USNM?).

= ab. "collinsi" Gunder. Bull. S. California Acad. Sci., 29: 62-63 (1930). TL — Collins' Ranch, Voltair, California. HT in AMNH.

= ab. "macyi" Fender. Ent. News, 41: 182 (1930). TL — McMinnville, Oregon. Type was in Fender colln.

b. **m. callina** (Boisduval) *MELITAEA*. Ann. Soc. Ent. Belgique, 12: 54 (1869). TL — "la Sonora, nous avons reçu du Mexique plusiers individus de cette même espece". Loc. of type not known (USNM?). **629b.**

= *arizonensis* Bauer. *in* Howe, Butts. N. America: 149-150 (1975). TL — "Arizona, New Mexico, Sonora, S. Colorado", specimen figured by Howe from Hannagan Meadows, White Mtns., Greenlee Co., Arizona (LACM). Loc. of type not known (Bauer colln.?, LACM?) [see **Note 517**].

c. **m. thebais** Godman and Salvin. Proc. Zool. Soc. London, [1878]: 268 (1878). TL — Oaxaca, Mexico. HT in BM. **629c.**

= *arida* (Skinner) *MELITAEA*. Ent. News, 28: 328-329 (1917). TL — "Cochise Co., Arizona. HT in CM [see **Note 518**].

Genus CXCIX: **Hypodryas** Higgins

Ent. Gazette, 29: 110-112 (1978). Type-species by original designation *Papilio maturna* Linnaeus, Syst. Nat., ed. 10, 1: 480 (1758).

1. **gilletti** (Barnes) *MELITAEA*. Canadian Ent., 29: 40-41 (1897). TL — Yellowstone Natl. Park, Wyoming. ST's in USNM.

= *glacialis* (Skinner) *MELITAEA*. Ent. News, 32: 89 (1921). TL — Two Medicine L., Yellowstone Natl. Park, Wyoming. HT in CM [see **Note 519**]. **630.**

= ab. "herri" (Gunder) *EUPHYDRYAS*. Pan-Pac. Ent., 6: 8 (1929). TL — Martins, vic. Stark, Missoula Co., Montana. HT in AMNH.

Genus CC: **Occidryas** Higgins

Ent. Gazette, 29: 112 (1978). Type-species by original designation *Melitaea anicia* Doubleday and Hewitson, Gen. diurn. Lepid., 1: pl. 23, fig. 2 [1848] [see **Note 520**].

1. **anicia** (Doubleday and Hewiston) *MELITAEA*. Gen. diurn. Lepid., 1: pl. 23, fig. 2 [1848]. TL — "Rocky Mountains" [vic. Banff, Alberta]. HT in BM.

a. **a. alena** (Barnes and Benjamin) *EUPHYDRYAS*. Bull. S. California Acad. Sci., 25: 93 (1926). TL — "So. Utah". HT in USNM. **631a.**

b. **a. anicia** (Doubleday and Hewitson) *MELITAEA*. Gen. diurn. Lepid., 1: pl. 23, fig. 2 [1848]. TL — "Rocky Mountains" [vic. Banff, Alberta]. HT in BM. **631b.**

= ab. "mayi" (Gunder) *EUPHYDRYAS*. Pan-Pac. Ent., 8: 126 (1932). TL — Banff, Alberta. HT in AMNH.

c. **a. bakeri** (D. Stallings and Turner) *EUPHYDRYAS*. J. Kansas Ent. Soc., 18: 82 (1945). TL — Cave Creek, Durkee, Oregon. HT stated to be in USNM. **631c.**

d. **a. bernadetta** (Leussler) *EUPHYDRYAS*. Ent. News, 31: 102-103 (1920). TL — Monroe Canyon, vic. Harrison, Sioux Co., Nebraska. ST's in Ohio State Univ. colln. **631d.**

= ab. "leussleri" (Gunder) *EUPHYDRYAS*. Ent. News, 38: 136 (1927). TL — vic. Harrison, Sioux Co., Nebraska. Loc. of type not known (AMNH? Ohio State Univ.?).

= ab. "belli" (Gunder) *EUPHYDRYAS*. Pan-Pac. Ent., 6: 4 (1929). TL — vic. Harrison, Sioux Co., Nebraska. HT in AMNH.

e. **a. capella** (Barnes) *MELITAEA*. Canadian Ent., 29: 41 (1897). TL — "around Manitou and Denver", [Colorado]. preference here given to Manitou Springs, El Paso Co., Colorado. ST's in USNM. **631e.**

= ab. "rubrolimbata" (J. A. Comstock) *MELITAEA*. The Lepid., 2: 36-37 (1918). TL — South Park, Park Co., Colorado. HT in LACM.

= ab. "oslari" (Gunder) *EUPHYDRYAS*. Ent. News, 36: 196-197 (1925). TL — Platte Canyon, Jefferson Co., Colorado. HT in AMNH.

f. **a. carmentis** (Barnes and Benjamin) *EUPHYDRYAS*. Bull. S. California Acad. Sci., 25: 93 (1926). TL — Pagosa Springs, Archuleta Co., Colorado. HT in USNM. **631f.**

= ab. "charlotteae" (Gunder) *EUPHYDRYAS*. Canadian Ent., 60: 165 (1928). TL — Pagosa Springs, Archuleta Co., Colorado. HT in USNM.

g. **a. chuskae** Ferris and R. Holland. Bull. Allyn Mus., (57): 2-3 (1980). TL — 3-5 mi. NNW Toadlena, Chuska Mtns., San Juan Co., New Mexico. HT in AME. **631g.**

h. **a. cloudcrofti** Ferris and R. Holland. Bull. Allyn Mus., (57): 3-8 (1980). TL — Pines Campground, 2 mi. NE Cloudcroft, Sacremento Mtns., Otero Co., New Mexico. HT in AME. **631h.**

i. **a. effi** (D. Stallings and Turner) *EUPHYDRYAS*. J. Kansas Ent. Soc., 18: 82-83 (1945). TL — Corral Creek, Ketchum, Idaho. HT stated to be in USNM. **631i.**

j. **a. eurytion** (Mead) *MELITAEA*. Repts. Wheeler Surv., 5: 759 (1875). TL — probably in South Park, Park Co., Colorado. ST's in CM [see **Note 521**]. **631j.**

= f. "brucei" (W. H. Edwards) *MELITAEA*. Canadian Ent., 20: 81-82 (1888). TL — Whale Mine, Hall Valley, Park Co., Colorado. LT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 92: 368 (1966).

= ab. "melanodisca" (J. A. Comstock) *MELITAEA*. The Lepid., 2: 34-35 (1918). TL — Hall Valley, Park Co., Colorado. HT in LACM.

k. **a. helvia** (Scudder) *MELITAEA*. Proc. Boston Soc. Nat. Hist., 12: 405 (1869). TL — Ramparts, Yukon River, Alaska. Type destroyed in Chicago fire of 1871. **631k.**

l. **a. hermosa** (W. G. Wright) *MELITAEA*. Butts. W. Coast: 157-158 (1905). TL — "southern Arizona". LT in CAS, designated by Tilden, Occ. Pap. California Acad. Sci., (118): 21 (1975) [see **Note 522**]. **631l.**

m. **a. hopfingeri** (Gunder) *EUPHYDRYAS*. Canadian Ent., 66: 128 (1934). TL — Black Canyon, Methow Valley, vic. Brewster, Okanogan Co., Washington. HT in AMNH. **631m.**

= ab. "andersoni" (Gunder) *EUPHYDRYAS*. Canadian Ent., 66: 128-129 (1934). TL — Black Canyon, Methow Valley, vic. Brewster, Okanogan Co., Washington. HT in AMNH.

n. **a. howlandi** (D. Stallings and Turner) *EUPHYDRYAS*. Canadian Ent., 78: 137 [1947] ("1946"). TL — Polaris, Montana. HT stated to be in USNM. **631n.**

o. **a. irelandi** (Gunder) *EUPHYDRYAS*. Canadian Ent., 61: 44-45 (1929). TL — nr. Alta Peak, Sequoia Natl. Park, California. HT in AMNH. **631o.**

p. **a. macyi** (Fender and Jewett) *EUPHYDRYAS*. Wasmann J. Biol., 11: 115-116 (1953). TL — Wildhorse Creek, Alford Basin, Harney Co., Oregon. HT in Fender colln. **631p.**

q. **a. magdalena** (Barnes and McDunnough) *EUPHYDRYAS*. Contrib. Nat. Hist. Lepid. N. America, 4: 71-72 (1918). TL — White Mtns., Arizona. HT **631q.**

in USNM.

r. **a. maria** (Skinner) *MELITAEA*. Canadian Ent., 31: 12 (1899). TL — Park City, Utah. HT in CM. **631r.**

= ab. "skinneri" (Gunder) *EUPHYDRYAS*. Canadian Ent., 60: 164-165 (1928). TL — Eureka, Utah. HT in USNM.

= ab. "spaldingi" (Gunder) *EUPHYDRYAS*. Canadian Ent., 60: 165 (1928). TL — Stockton, Utah. HT in USNM.

s. **a. morandi** (Gunder) *EUPHYDRYAS*. Ent. News, 39: 304-305 (1928). TL — Kyle Canyon, Mt. Charleston, Spring Mtns., Clark Co., Nevada. HT in AMNH. **631s.**

t. **a. veazieae** (Fender and Jewett) *EUPHYDRYAS*. Wasmann J. Biol., 11: 117 (1953). TL — Jackass Mtns., Harbey Co., Oregon. ST's in Jewett colln. **631t.**

u. **a. wheeleri** (Hy. Edwards) *MELITAEA*. Papilio, 1: 52-53 (1881). TL — "southern Nevada". HT in AMNH. **631u.**

= ab. "duncani" (Gunder) *EUPHYDRYAS*. Canadian Ent., 66: 129 (1934). TL — Sta. Catalina Mtns., Arizona. HT in AMNH.

v. **a. windi** (Gunder) *EUPHYDRYAS*. Canadian Ent., 64: 282 (1932). TL — Timber Island, Teton Mtns., Teton Co., Wyoming. HT in AMNH. **631v.**

2. **chalcedona** (Doubleday) *MELITAEA*. Gen. diurn. Lepid., 1: 180 [1847]. TL not stated, possibly vic. San Francisco, California. HT in BM.

a. **c. chalcedona** (Doubleday) *MELITAEA*. Gen. diurn. Lepid., 1: 180 [1847]. TL not stated, possibly vic. San Francisco, California. HT in BM. **632a.**

= *cooperi* (Behr) *MELITAEA*. Proc. California Acad. Nat. Sci., 3: 90 (1863). TL — Clear Lake and Mt. Tamalpais, [Marin Co.], California. Types destroyed in 1906 San Francisco earthquake and fire.

= ab. "fusimaculata" (Barnes) *MELITAEA*. Canadian Ent., 32: 42 (1900). TL — "California". HT in USNM.

= ab. "mariana" (Barnes) *MELITAEA*. Canadian Ent., 32: 42 (1900). TL — "California". HT in USNM.

= ab. "grundeli" (Coolidge) *LEMONIAS*. Canadian Ent., 40: 42 (1908). TL — Cathran Gulch, Wright's Station, California. Loc. of type not known (Grundel colln.).

= ab. "lorquini" (Oberthür) *MELITAEA*. Etudes Lepid. Comp., 9(2): 76 (1914). TL not stated, but specimen collected by Lorquin, probably vic. San Francisco, California. HT in USNM.

= ab. "omniluteofuscus" (Gunder) *EUPHYDRYAS*. Ent. News, 36: 195-196 (1925). TL — Santa Monica, California. HT in AMNH.

= ab. "hemiluteofuscus" (Gunder) *EUPHYDRYAS*. Ent. News, 36: 196 (1925). TL — Alturas, Modoc Co., California. HT in AMNH.

= ab. "suprafusca" (J. A. Comstock) *EUPHYDRYAS*. Bull. S. California Acad. Sci., 25: 30 (1926). TL — Los Angeles, California. HT in LACM.

= ab. "fusisecunda" (J. A. Comstock) *EUPHYDRYAS*. Bull. S. California Acad. Sci., 25: 31 (1926). TL — Mt. Wilson, Los Angeles Co., California. HT in LACM.

= ab. "supranigrella" (J. A. Comstock) *EUPHYDRYAS*. Bull. S. California Acad. Sci., 25: 30 (1926). TL — Mt. Wilson, Los Angeles Co., California. HT in LACM.

= ab. "hemimelanica" (J. A. Comstock) *EUPHYDRYAS*. Bull. S. California Acad. Sci., 25: 30 (1926). TL — Los Angeles, California. HT in LACM.

b. **c. corralensis** (T. and J. Emmel) *EUPHYDRYAS*. J. Res. Lepid., 11: 143-144 [1973] ("1972"). TL — Rock Corral, San Bernardino Co., California. HT in LACM [see **Note 523**]. **632b.**

c. **c. dwinellei** (Hy. Edwards) *MELITAEA*. Papilio, 1: 51-52 (1881). TL — McCloud Fishing Station, Shasta Co., California. ST's in AMNH. **632c.**

d. **c. huellemanni** (dos Passos) *EUPHYDRYAS*. Mem. Lepid. Soc., (1): 86 (1964); change of status. TL — Wallace, Idaho. HT in LACM [see **Note 524**]. **632d.**

= ab. "huellemanni" (J. A. Comstock) *EUPHYDRYAS*. Bull. S. California Acad. Sci., 25: 32 (1926). TL — Wallace, Idaho. HT in LACM.

e. **c. kingstonensis** (T. and J. Emmel) *EUPHYDRYAS*. J. Res. Lepid., 11: 141-143 [1973] ("1972"). TL — T19N, R10E, Sec. 3, rocky canyon ¾ mi. SE Horse Thief Springs, Kingston Range, San Bernardino Co., California. HT in LACM. **632e.**

f. **c. klotsi** (dos Passos) *EUPHYDRYAS*. Canadian Ent., 70: 199-200 (1938). TL — Roosevelt Lake, Arizona. HT in AMNH. **632f.**

g. **c. macglashanii** (Rivers) *MELITAEA*. Proc. California Acad. Sci., (2)1: 103 (1888). TL — Truckee, Nevada Co., California. Type may have been destroyed in 1906 San Francisco earthquake and fire [see **Note 525**]. **632g.**

= *truckeensis* (Gunder) *EUPHYDRYAS*. Ent. News, 39: 305-306 (1928). TL — Truckee, Nevada Co., California. HT in AMNH.

= ab. "hilli" (Gunder) *EUPHYDRYAS*. Ent. News, 39: 306 (1928). TL — Auburn, Placer Co., California. HT in AMNH.

h. **c. olancha** (W. G. Wright) *MELITAEA*. Butts. W. Coast: 150 (1905). TL — Olancha Peak, Tulare/Inyo Cos., California. LT in CAS, designated by Tilden, Occ. Pap. California Acad. Sci., (118): 19 (1975). **632h.**

= f. "georgei" (Gunder) *EUPHYDRYAS*. Ent. News, 39: 206 (1928). TL — Casa Diablo Hills, Mono Co., California. HT in AMNH.

= ab. "malcolmi" (Gunder) *EUPHYDRYAS*. Ent. News, 38: 134 (1927). TL — Casa Diablo Hills, Mono Co., California. HT in AMNH.

i. **c. quino** (Behr) *MELITAEA*. Proc. California Acad. Nat. Sci., 3: 90 (1863). TL — San Diego, California. Type destroyed in 1906 San Francisco earthquake and fire. **632i.**

= ab. "hennei" (Gunder) *EUPHYDRYAS*. Pan-Pac. Ent., 8: 126 (1932). TL — Chino Canyon, Palm Springs, California. HT in AMNH.

j. **c. sierra** (W. G. Wright) *MELITAEA*. Butts. W. Coast: 152 (1905). TL — "Sierra Nevadas, California". LT in CAS, designated by Tilden, Occ. Pap. California Acad. Sci., (118): 20 (1975). **632j.**

= ab. "magdelenae" (Gunder) *EUPHYDRYAS*. Ent. News, 36: 197 (1925). TL — Glen Alpine Creek, El Dorado Co., California. HT in AMNH.

= ab. "umbrosbasana" (J. A. Comstock) *EUPHYDRYAS*. Bull. S. California Acad. Sci., 25: 31 (1925). TL — vic. Lake Tahoe, Placer Co (?), California. HT in LACM.

k. **c. sperryi** (F. and R. Chermock) *EUPHYDRYAS*. Proc. Pennsylvania Acad. Sci., 19: 39 (1945). TL — vic. Bartle Lumber Camp, Siskiyou Co., California. HT probably in CM. **632k.**

3. **colon** (W. H. Edwards) *MELITAEA*. Bull. Brooklyn Ent. Soc., 3: 80 (1881). TL — "Mount Hood, Oregon", later corrected by Edwards, then fixed as Kalama, Cowlitz Co., Washington, by F. M. Brown, Trans. American Ent. Soc., 92: 361 (1966). LT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 92: 363 (1966) [see **Notes 526** and **527**].

a. **c. colon** (W. H. Edwards) *MELITAEA*. Bull. Brooklyn Ent. Soc., 3: 80 (1881). TL — "Mount Hood, Oregon", later corrected by Edwards, then fixed as Kalama, Cowlitz Co., Washington, by F. M. Brown, Trans. American Ent. Soc., 92: 361 (1966). LT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 92: 363 (1966) [see **Notes 526** and **527**]. **633a.**

= ab. "mcdunnoughi" (Gunder) *EUPHYDRYAS*. Canadian Ent., 60: 163-164 (1928). TL — Corvallis, Oregon. HT in AMNH [see **Note 528**].

= ab. "fenderi" (Gunder) *EUPHYDRYAS*. Pan-Pac. Ent., 8: 126 (1932). TL — McMinnville, Yamhill Co., Oregon. HT in AMNH.

= ab. "bakeri" (Fender) *EUPHYDRYAS*. Bull. Brooklyn Ent. Soc., 40: 54 (1945). TL — Elk Lake, Santiam Natl. For., Oregon. Type in Fender colln.

b. c. **nevadensis** (Bauer) *EUPHYDRYAS*. *in* Howe, Butts. N. America: 181 (1975). TL not stated in text, here restricted to Wildhorse Camp, 10 mi. S Mountain City, Elko Co., Nevada. LT in Bauer colln. [see **Note 529**], here designated. **633b.**

c. c. **paradoxa** (McDunnough) *EUPHYDRYAS*. Canadian Ent., 59: 159 (1927). TL — Seton Lake, Lillooet, British Columbia. HT in CNC. **633c.**

d. c. **perdiccas** (W. H. Edwards) *MELITAEA*. Bull. Brooklyn Ent. Soc., 3: 80 (1881). TL — Tenino, Thurston Co., Washington. LT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 92: 366 (1966) [see **Notes 526** and **530**]. **633d.**

= ab. "nigrisupernipennis" (Gunder) *EUPHYDRYAS*. Ent. News, 37: 4-5 (1926). TL — Victoria, British Columbia. HT in AMNH.

= ab. "svihlae" (Gunder) *EUPHYDRYAS*. Pan-Pac. Ent., 8: 126 (1932). TL — Hurricane Hill, Olympic Mtns., Washington. HT in AMNH.

e. c. **wallacensis** (Gunder) *EUPHYDRYAS*. Pan-Pac. Ent., 5: 50 (1928). TL — Wallace, Shoshone Co., Idaho. HT in AMNH. **633e.**

= ab. "idahoensis" (Gunder) *EUPHYDRYAS*. Pan-Pac. Ent., 6: 3 (1929). TL — Wallace, Shoshone Co., Idaho. HT in AMNH.

4. **editha** (Boisduval) *MELITAEA*. Ann. Soc. Ent. France, (2)10: 304 (1852). TL — "les montagnes", foothills S edge of San Joaquin Valley, California, suggested by Bauer, *in* Butts. N. America: 190 (1975). HT apparently in USNM [see **Notes 22** and **531**].

a. e. **alebarki** (Ferris) *EUPHYDRYAS*. J. Res. Lepid., 9: 17-20 [1971] ("1970"). TL — Medicine Bow Natl. For., *ca.* 10 mi. SW Encampment on Battle Lake Rd., Sierra Madre Mtns., Carbon Co., Wyoming. ST's in Ferris colln. **634a.**

b. e. **augusta** (W. H. Edwards) *MELITAEA*. Canadian Ent., 22: 21-23 (1890). TL — vic. San Bernardino, San Bernardino Co., California. LT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 92: 371 (1966). **634b.**

= ab. "augustina" (W. G. Wright) *MELITAEA*. Butts. W. Coast: 154 (1905). TL — San Bernardino Mtns., San Bernardino Co., California. HT in CAS [see **Note 532**].

c. e. **aurilacus** (Gunder) *EUPHYDRYAS*. Pan-Pac. Ent., 5: 49-50 (1928). TL — nr. Gold Lake Camp, Gold Lake, Sierra Co., California. HT in AMNH. **634c.**

= ab. "foxi" (Gunder) *EUPHYDRYAS*. Ent. News, 35: 155 (1924). TL — Gold Lake, Sierra Co., California. HT in AMNH.

= ab. "albiradiata" (Gunder) *EUPHYDRYAS*. Ent. News, 37: 3-4 (1926). TL — Loyalton, Sierra Co., California. HT in AMNH.

d. e. **baroni** (W. H. Edwards) *MELITAEA*. Canadian Ent., 11: 129-131 (1879). TL — Mendoncino, Mendocino Co., California. LT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 92: 374 (1966). **634d.**

= ab. "mirabilis" (W. G. Wright) *MELITAEA*. Butts. W. Coast: 160 (1905). HT in CAS.

= ab. "dunni" (Gunder) *EUPHYDRYAS*. Pan-Pac. Ent., 6: 6 (1929). TL — Mendocino, Mendocino Co., California. HT in AMNH.

e. e. **bayensis** (Sternitzky) *EUPHYDRYAS*. Canadian Ent., 69: 204-205 (1937). TL — Hillsborough, San Mateo Co., California. ST's in CAS. **634e.**

= ab. "sternitzkyi" (Gunder) *EUPHYDRYAS*. Pan-Pac. Ent., 6: 6 (1929). TL — Hillsborough, nr. San Mateo, San Mateo Co., California. HT in AMNH.

f. **e. beani** (Skinner) *MELITAEA*. Canadian Ent., 29: 155 (1897). TL — vic. Laggan, Alberta. HT in CM. **634f.**

= ab. "blackmorei" (Gunder) *EUPHYDRYAS*. Ent. News, 37: 2 (1926). TL — Mt. Cheam, British Columbia. HT in AMNH.

g. **e. colonia** (W. G. Wright) *MELITAEA*. Butts. W. Coast: 158 (1905). TL — Mt. Hood, Oregon. LT in CAS, designated by Tilden, Occ. Pap. California Acad. Sci., (118): 21 (1975). **634g.**

h. **e. editha** (Boisduval) *MELITAEA*. Ann. Soc. Ent. France, (2)10: 304 (1852). TL — "les montagnes", foothills S edge of San Joaquin Valley, California, suggested by Bauer, *in* Howe, Butts. N. America: 190 (1975). HT apparently in USNM [see **Notes 22** and **532**]. **634h.**

= ab. "cottlei" (Gunder) *EUPHYDRYAS*. Canadian Ent., 60: 164 (1928). HT in AMNH.

i. **e. edithana** (Strand) *MELITAEA*. Arch. f. Naturgesch., (A)80(11): 155 (1914). TL — "N. California". HT probably in ZMHU. **634i.**

j. **e. fridayi** (Gunder) *EUPHYDRYAS*. Bull. S. California Acad. Sci., 30: 47 (1931). TL — between June and Silver Lakes, Mono Co., California. HT in AMNH. **634j.**

k. **e. gunnisonensis** (F. M. Brown) *EUPHYDRYAS*. J. Res. Lepid., 9: 21-23 [1971] ("1970"). TL — Owl Creek Pass Road, 2 mi. E Colorado Hwy. 550, vic. Ridgeway, Ouray Co., Colorado. HT in AMNH. **634k.**

l. **e. hutchinsi** (McDunnough) *EUPHYDRYAS*. Canadian Ent., 60: 248-249 (1928). TL — Milligan Canyon, Jefferson Co., Montana. HT in CNC. **634l.**

= *montanus* (McDunnough) *EUPHYDRYAS*. Canadian Ent., 60: 249 (1928). TL — upper slopes Mt. Washburn, Yellowstone Natl. Park, Wyoming. HT in CNC [see **Note 533**].

m. **e. insularis** (T. and J. Emmel) *EUPHYDRYAS*. J. Res. Lepid., 13: 131-136 [1975] ("1974"). TL — Santa Rosa I., Santa Barbara Co., California. HT in LACM. **634m.**

n. **e. lawrencei** (Gunder) *EUPHYDRYAS*. Bull. S. California Acad. Sci., 30: 47 (1931). TL — nr. Timberline on trail from Diamond Lake to summit of Mt. Thielsen, Douglas Co., Oregon. HT in AMNH. **634n.**

= *remingtoni* (Burdick) *EUPHYDRYAS*. Lepid. News, 12: 268-269 (1958). TL — Mt. Thielsen, Douglas Co., Oregon. HT in YPM.

= ab. "diamondensis" (Gunder) *EUPHYDRYAS*. Bull. S. California Acad. Sci., 30: 48 (1931). TL — timberline on Mt. Thielsen, Douglas Co., Oregon. HT in AMNH.

= ab. "thielsenensis" (Gunder) *EUPHYDRYAS*. Bull. S. California Acad. Sci., 30: 48 (1931). TL — timberline on Mt. Thielsen, Douglas Co., Oregon. HT in AMNH [see **Note 534**].

o. **e. lehmani** (Gunder) *EUPHYDRYAS*. Pan-Pac. Ent., 6: 7 (1929). TL — Lehman Caves Resort, Mt. Wheeler, White Pine Co., Nevada. HT in AMNH. **634o.**

= ab. "caverna" (Gunder) *EUPHYDRYAS*. Canadian Ent., 66: 129 (1934). TL — vic. Lehman Caverns, Mt. Wheeler, White Pine Co., Nevada. HT in AMNH.

p. **e. monoensis** (Gunder) *EUPHYDRYAS*. Pan-Pac. Ent., 5: 49 (1928). TL — Rush Lake (below Farmington's Ranch), vic. Mono Lake, Mono Co., California. HT in AMNH. **634p.**

= ab. "rubrosuffusa" (J. A. Comstock) *EUPHYDRYAS*. Bull. S. California Acad. Sci., 25: 32 (1926). TL — Mammoth, Mono Co., California. HT in LACM.

q. **e. nubigena** (Behr) *MELITAEA*. Proc. California Acad. Nat. Sci., 3: 91 (1863). TL — headwaters of Tuolumne River, up to 11,500 ft., [California]. **634q.**

Type destroyed in 1906 San Francisco earthquake and fire [see **Note 535**].

= ab. "tiogaensis" (Gunder) *EUPHYDRYAS*. Pan-Pac. Ent., 6: 6 (1929). TL — Tioga Pass, Yosemite Natl. Park, California. HT in AMNH [see **Note 536**].

= ab. "boharti" (Gunder) *EUPHYDRYAS*. Pan-Pac. Ent., 6: 6 (1929). TL — Tuolumne Meadows, Yosemite Natl. Park, California. HT in AMNH.

r. **e. rubicunda** (Hy. Edwards) *MELITAEA*. Papilio, 1: 52 (1881). TL — "Sierra Nevada . . . from 2500 feet to 7000 feet . . ."[California]. restricted to Mariposa Co., California, by Gunder, Pan-Pac. Ent., 6: explanation for Fig. 15 (1929). ST's in AMNH. **634r.**

s. **e. taylori** (W. H. Edwards) *MELITAEA*. Canadian Ent., 20: 82-84 (1888). TL — Victoria, Vancouver Island, British Columbia. LT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 92: 376 (1966). **634s.**

= ab. "victoriae" (Gunder) *EUPHYDRYAS*. Ent. News, 37: 4-5 (1926). TL — Victoria, British Columbia. HT in AMNH.

= ab. "barnesi" (Gunder) *EUPHYDRYAS*. Canadian Ent., 60: 164 (1928). TL — Victoria, British Columbia. HT in AMNH.

t. **e. wrighti** (Gunder) *EUPHYDRYAS*. Pan-Pac. Ent., 6: 5 (1929). TL — San Diego, San Diego Co., California. HT in AMNH. **634t.**

= ab. "fieldi" (Gunder) *EUPHYDRYAS*. Ent. News, 35: 155-156 (1924). TL — San Diego, San Diego Co., California. HT in AMNH.

= ab. "thornei" (Gunder) *EUPHYDRYAS*. Canadian ent., 66: 129 (1934). TL — Chula Vista, San Diego Co., California. HT in AMNH.

= ab. "rubyae" (Hower) *EUPHYDRYAS*. Pan-Pac. Ent., 11: 82 (1935). TL — Dana Point, Orange Co., California. Loc. of type not known (LACM? San Diego Mus. Nat. Hist.?).

Genus CCI: **Euphydryas** Scudder

4th Ann. Rept. Peabody Acad. Sci., [1871]: 48 (1872). Type-species by original designation *Papilio phaeton* Drury, Ill. Nat. Hist., 1: index *et* 42 [1773].

1. **phaeton** (Drury) *PAPILIO*. Ill. Nat. Hist., 1: index *et* 42 [1773]. TL — "New York". Type sold at auction and lost [see **Notes 99** and **537**].

a. **p. phaeton** (Drury) *PAPILIO*. Ill. Nat. Hist., 1: index *et* 42 [1773]. TL — "New York". Type sold at auction and lost [see **Notes 99** and **537**]. **635a.**

= *schausi* (A. H. Clark) *MELITAEA*. Proc. U. S. Natl. Mus., 71(11): 1-6 (1927). TL — Alexandria, Virginia. ST's in USNM.

= *borealis* F. and R. Chermock. Bull. Pennsylvania Acad. Sci., 14: 140(1940). TL — Lincoln, Maine. HT in CNC.

= ab. "superba" (Strecker) *MELITAEA*. Cat. N. American Macrolepid.: 125 (1878). TL — Long Island, New York. HT in FMNH.

= ab. "phaethusa" (Hulst) *MELITAEA*. Bull. Brooklyn Ent. Soc., 3: 77 (1880). TL — E. Williamsburgh, vic. Brooklyn, [Long Island], New York. HT probably in USNM.

= "streckeri" (Ellsworth) *MELITAEA*. Ent. News, 13: 404 (1902). TL — Vestal, New York. Loc. of type not known.

= ab. "magnifica" (A. H. Clark) *MELITAEA*. Proc. U. S. Natl. Mus., 71 (11): 7 (1927). TL — Cabin John, Maryland. HT in USNM.

b. **p. ozarkae** Masters. Ent. News, 79: 85-91 (1968). TL — ridge N Lynch Hollow, nr. County Rd. F, Camden Co., Missouri. HT in CM. **635b.**

Subfamily **Nymphalinae** Swainson

Phil. Mag. (n. ser.), 1: 187 (1827) [see **Note 1**].

Tribe **Nymphalini** Swainson

Phil. Mag. (n. ser.), 1: 187 (1827) [see **Note 1**].
= Vanessini W. Kirby, *in* Richardson, Fauna. Bor.-Americana, 4: 292 (as "Vanessinae") (1837).

Genus CCII: **Polygonia** Hübner

Verz. bekannt. Schmett., (3): 36 [1819]. Type-species by designation of Scudder, 4th Ann. Rept. Peabody Acad. Sci., [1871]: 30 (1872), *Papilio c-aureum* Linnaeus, Syst. Nat., ed. 10, 1: 477 (1758).
= *Eugonia* Hübner, Verz. bekannt. Schmett., (3): 36 [1819]. Type-species by designation of Grote, Canadian Ent., 5: 144 (1873) *Papilio angelica* Stoll, *in* Cramer, Uitl. Kapellen, 4: 204 [1782].
= *Comma* Rennie, Conspectus Butts. Moths: 8 (1832). Type-species by monotypy *Papilio c-album* Linnaeus, Syst. Nat., ed. 10, 1: 477 (1758).
= *Grapta* W. Kirby, *in* Richardson, Fauna Bor.-Americana, 4: 292 (1837). Type-species by monotypy *Vanessa (Grapta) c-argenteum* W. Kirby, *in* Richardson, Fauna Bor.-Americana, 4: 292 (1837)(=*Papilio progne* Cramer, Uitl. Kapellen, 1: 9 [1775]).

1. **interrogantionis** (Fabricius) *PAPILIO*. Ent. Syst., Suppl.: 424 (1798). TL — "America boreali". ST's in Kiel. **636.**
= *fabricii* (W. H. Edwards) *GRAPTA*. Trans. American Ent. Soc., 3: 5-7 (1870). TL — [Coalburgh], West Virginia, restricted by F. M. Brown, Trans. American Ent. Soc., 93: 322-323 (1967). LT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 93: 325 (1967).
= f. "umbrosa" (Lintner) *GRAPTA*. Trans. American Ent. Soc., 2: 313-319 (1869). TL — [Schoharie, New York]. ST's may be in New York State Mus., Albany.
= f. "crameri" (Scudder) *GRAPTA*. Proc. Boston Soc. Nat. Hist., 13: 276 (1870). TL — "Massachusetts". HT should be in MCZ.

2. **comma** (Harris) *VANESSA*. Rept. Ins. Inj. Veg., 1st ed.: 221 (1842). TL — "New England". Type may be lost. **637.**
= *harrisii* (W. H. Edwards) *GRAPTA*. Canadian Ent., 5: 185 (1873). TL — Coalburgh, West Virginia. LT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 93: 329 (1967).
= f. "dryas" (W. H. Edwards) *GRAPTA*. Trans. American Ent. Soc., 3: 7, 17-18 (1870). TL — Coalburgh, West Virginia. LT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 93: 327 (1967).

3. **satyrus** (W. H. Edwards) *GRAPTA*. Trans. American Ent. Soc., 2: 374-375 (1869). TL — Empire, Clear Creek Co., Colorado, restricted by F. M. Brown, Trans. American Soc., 93: 330 (1967). LT in FMNH, designated by F. M. Brown, Trans. American Ent. Soc., 93: 331 (1967).

a. s. **satyrus** (W. H. Edwards) *GRAPTA*. Trans. American Ent. Soc., 2: 374-375 (1869). TL — Empire, Clear Creek Co., Colorado, designated by F. M. Brown, Trans. American Ent. Soc., 93: 330 (1967). LT in FMNH, designated by F. M. Brown, Trans. American Ent. Soc., 93: 331 (1967). **638a.**
= f. "chrysoptera" (W. G. Wright) *GRAPTA*. Butt. W. Coast: 172 (1905). TL — "Sierras of cent. California". LT in CAS, designated by Tilden, Occ. Papers California Acad. Sci., (118): 25 (1975).

b. s. **neomarsayas** dos Passos. Trans. American Ent. Soc., 95: 155-158 (1969). **638b.**

TL — Salmon Meadows, Brewster, Washington. HT in CM [see **Note 538**].
= ab. "hollandi" Gunder. Bull. S. California Acad. Sci., 26: 53 (1927). TL — "California". HT in CM, name based on Edwards' figure.

4. **faunus** (W. H. Edwards) *GRAPTA*. Proc. Acad. Nat. Sci. Philadelphia, 14: 222-223 (1862). TL — Hunter, Green Co., New York, designated by dos Passos, *in* F. M. Brown, Trans. American Ent. Soc., 93: 336 (1967). LT in CM, designated by dos Passos and F. M. Brown, *in* F. M. Brown, Trans. American Ent. Soc., 93: 338 (1967).
   a. **f. faunus** (W. H. Edwards) *GRAPTA*. Proc. Acad. Nat. Sci. Philadelphia, 14: 222-223 (1862). TL — Hunter, Green Co., New York, designated by dos Passos, *in* F. M. Brown, Trans. American Ent. Soc., 93: 336 (1967). LT in CM, designated by dos Passos and F. M. Brown, Trans. American Ent. Soc., 93: 338 (1967) [see **Note 539**]. **639a.**
   b. **f. smythi** A. H. Clark. Proc. U. S. Natl. Mus., 84: 219-222 (1937). TL — Mt. Rogers, Grayson Co., Virginia. HT in USNM. **639b.**
   c. **f. rusticus** (W. H. Edwards) *GRAPTA*. Trans. American Ent. Soc., 5: 107-108 (1874). TL — Big Trees, Calaveras Co., California, restricted by dos Passos, *in* F. M. Brown, Trans. American Ent. Soc., 93: 341 (1967). LT in AMNH, designated by F. M. Brown, Trans. American Ent. Soc., 93: 343-344 (1967). **639c.**
   d. **f. arcticus** Leussler. Bull. Brooklyn Ent. Soc., 30: 56-57 (1935). TL — base of Black Mt., nr. Aklavik, Northwest Territories. HT probably in Ohio State Univ. **639d.**
5. **hylas** (W. H. Edwards) *GRAPTA*. Trans. American Ent. Soc., 4: 68-69 (1872). TL — Berthoud Pass, Colorado, restricted by dos Passos, *in* F. M. Brown, Trans. American Ent. Soc., 93: 339 (1967). LT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 93: 341 (1967). **640.**
   = ♀ f. "orpheus" Cross. Pan-Pac. Ent., 12: 197 (1936). TL — Deer Cr. Canyon, nr. Denver, Colorado. HT in Denver Mus. Nat. Hist.
6. **silvius** (W. H. Edwards) *GRAPTA*. Trans. American Ent. Soc., 5: 108-109 (1874). TL — Yosemite Valley, Yosemite Natl. Park, California, restricted by dos Passos, *in* F. M. Brown, Trans. American Ent. Soc., 93: 344 (1967). LT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 93: 347 (1967) [see **Note 540**]. **641.**
7. **zephyrus** (W. H. Edwards) *GRAPTA*. Trans. American Ent. Soc., 3: 16 (1870). TL — Virginia City, Storey Co., Nevada, restricted by F. M. Brown, Trans. American Ent. Soc., 93: 347-349 (1967). LT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 93: 350 (1967) [see **Note 541**]. **642.**
8. **gracilis** Grote and Robinson) *GRAPTA*. Ann. New York Lyc. Nat. Hist., 8: 432-433 (1867). TL — Mt. Washington, New Hampshire. ST's may be in AMNH. **643.**
9. **oreas** (W. H. Edwards) *GRAPTA*. Trans. American Ent. Soc., 2: 273 (1869). TL — "California". NT in CM, designated by dos Passos and F. M. Brown, *in* F. M. Brown, Trans. American Ent. Soc., 93: 354-355 (1967).
   a. **o. oreas** (W. H. Edwards) *GRAPTA*. Trans. American Ent. Soc., 2: 273 (1869). TL — "California". NT in CM, designated by dos Passos and F. M. Brown, *in* F. M. Brown, Trans. American Ent. Soc., 93: 354-355 (1967). **644a.**
   b. **o. silenus** (W. H. Edwards) *GRAPTA*. Trans. American Ent. Soc., 3: 15 (1870). TL — Portland, Multnomah Co., Oregon, restricted by dos Passos, *in* F. M. Brown, Trans. American Ent. Soc., 93: 355-358 (1967). NT in AMNH, designated by dos Passos, *in* F. M. Brown, American Ent. Soc., 93: 358 (1967). **644b.**
10. **progne** (Cramer) *PAPILIO*. Uitl. Kapellen, 1: 9 [1776]. TL — "Jamaica and New York". Loc. of type not known [see **Note 542**]. **645.**
   = *g-argenteum* (W. Kirby) *GRAPTA*. *in* Richardson, Fauna Bor.-Americana, 4: 292 (1837). TL — "taken at 54° N. Lat." (Cumberland House?). Loc. of

type not known (BM?).

=. f. "l-argenteum" Scudder. Bull. Buffalo Soc. Nat. Sci., 2: 253 (1875). TL not given. Loc. of type not known (MCZ?).

= ab. "martineae" Coleman. Ent. News, 30: 112-113 (1919). TL not known, probably Connecticut. HT in YPM.

Genus CCIII: **Nymphalis** Kluk

Zwierz. Hist. nat. Pocz. Gospod, 4: 86 (1802). Type-species by designation of Hemming, Entomologist, 66: 223 (1933) *Papilio polychloros* Linnaeus, Syst. Nat., ed. 10, 1: 477 (1758) [see **Notes 543** and **544**].

= ‡ *Scudderia* Grote, Canadian Ent., 5: 144 (1873). Type-species by monotypy *Papilio antiopa* Linnaeus, Syst. Nat., ed. 10, 1: 476 (1758). Preoccupied by *Scudderia* Stal, Ofvers. VetenskAkad. Forh., 30: 41 (1873) [see **Note 545**].

= *Euvanessa* Scudder, Butts. E. U. S. Canada, 1(3): 387 (1889). Type-species, as replacement name, *Papilio antiopa* Linnaeus, Syst. Nat., ed. 10, 1: 476 (1758).

*1. **vau-album** ([Denis and Schiffermüller]) *PAPILIO.* Ankündung [*sic.*] eines Syst. Werkes Schmett. Wiener Gegend: 176 (1775). TL — presumably near Vienna. Type probably lost (Vienna?) [see **Note 75**].

a. **v. j-album** (Boisduval and Leconte) *VANESSA.* Hist. Lepid. . .Amerique sept.: 185-186 [1833]. TL — "env. New York, Philadelphia and New Harmony, Indiana". Type probably never existed, name based on Abbot drawing [see **Note 546**]. **646a.**

= ab. "aureomarginata" (Cockerell) *GRAPTA.* Entomologist, 22: 100 (1889). TL not stated, probably New England. Loc. of type not known - name based on Maynard reference.

2. **californica** (Boisduval) *VANESSA.* Ann. Soc. Ent. France, (2)10: 366 (1852). TL — "California". Type may be in USNM [see **Note 22**].

a. **c. californica** (Boisduval) *VANESSA.* Ann. Soc. Ent. France, (2)10: 366 (1852). TL — "California". Type may be in USNM [see **Note 22**]. **647a.**

b. **c. herri** Field. Ent. News, 47: 121-122 (1936). TL — Buckhorn Mtns., Washington. HT in USNM. **647b.**

3. **antiopa** (Linnaeus) *PAPILIO.* Syst. Nat., ed. 10, 1: 476 (1758). TL — "Sweden". HT(?) in Uppsala.

a. **a. antiopa** (Linnaeus) *PAPILIO.* Syst. Nat., ed. 10, 1: 476 (1758). TL — "Sweden". HT(?) in Uppsala [see **Note 75**]. **648a.**

= *pompadour* (Pollich) *PAPILIO.* Bemerk. Chürpfalz. Oekon. Ges., [1779]: 253 (1779). TL — Pfalz, Germany. Type probably lost.

= ab. "hygiaea" (Heydenreich) *VANESSA.* Verz. europaischer Schmett.: 7 (1846). TL not stated. Loc. of type not known.

= ab. "lintneri" (Fitch) *VANESSA.* Trans. New York Agric. Soc., [1856]: 485 (1856). TL — "New York". Loc. of type not known.

= ab. "obscura" (Cockerell) *VANESSA.* Ent. Rec., 23: 307 (1890). TL — Wet Mtns., Colorado. Loc. of type not known (BM?).

= ab. "hippolyte" (Lyman) *VANESSA.* Canadian Ent., 30: 49 (1898). TL — Boundary Creek, British Columbia. HT in Lyman Mus. [see **Note 547**].

= ab. "grandis" (Ehrmann) *VANESSA.* Canadian Ent., 32: 348 (1900). TL — "SW Pennsylvania". HT in CM.

b. **a. hyperborea** (Seitz) *VANESSA. in* Seitz, Grossschmett. Erde, 5: 457 (1914). TL — "extreme northern Alaska". Loc. of type not known (Stuttgart?). **648b.**

Genus CCIV: **Aglais** Dalman

K. Svenska Vetensk-Akad. Handl., [1816]: 56 (1816). Type-species by original designation *Papilio urticae* Linnaeus, Syst. Nat., ed. 10, 1: 477 (1758) [see **Note 548**].

1. **milberti** (Godart) *VANESSA*. Enc. Meth., 9: 307-308 [1819]. TL — "United States", fixed as vic. Philadelphia, Pennsylvania by dos Passos, Canadian Ent., 70: 72 (1938). HT in MNHN [see **Notes 549** and **550**].
   a. **m. viola** dos Passos. Canadian Ent., 70: 73 (1938). TL — Doyles Station, Newfoundland. HT in AMNH. **649a.**
   b. **m. milberti** (Godart) *VANESSA*. Enc. Meth., 9: 307-308 [1819]. TL — "United States", fixed as vic. Philadelphia, Pennsylvania by dos Passos, Canadian Ent., 70: 72 (1938). HT in MNHN [see **Notes 549** and **550**]. **649b.**
      = ab. "rothkei" Gunder. Canadian Ent., 59: 286 (1927). TL — Scranton, Pennsylvania. HT in AMNH.
   c. **m. furcillata** (Say) *VANESSA*. American Ent., 2: pl. 27 (1825). TL — vic. Fort William, "North West Territory". Type apparently lost. **649c.**
      = *subpallida* (Cockerell) *VANESSA*. Entomologist, 22: 185 (1889). TL — West Cliff, Custer Co., Colorado. HT in BM.

Genus CCV: **Vanessa** Fabricius

Mag. f. Insektenk., 6: 281 (1807). Type-species by designation of Latreille, Consid. Gen. Anim. Crust. Arach. Ins.: 440, 354 (1810) *Papilio atalanta* Linnaeus, Syst. Nat., ed. 10, 1: 478 (1758).

= ‡ *Nymphalis* Latreille, Nouv. Dict. Hist. Nat. 24 (Tab.): 184, 199 (1804). Type-species by monotypy *Papilio atalanta* Linnaeus, Syst. Nat., ed. 10, 1: 478 (1758). Preoccupied by *Nymphalis* Kluk, Zwierz. Hist. Nat. Pocz. Gospod., 4: 86 (1802).

= *Cynthia* Fabricius, Mag. f. Insektenk., 6: 281 (1807). Type-species by designation of Westwood, Intro. Class. Ins., 2: syn.: 87 (1840) *Papilio cardui* Linnaeus, Syst. Nat., ed. 10, 1: 475 (1758) [see **Note 551**].

= *Pyrameis* Hübner, Verz. bekannt. Schmett., (3): 33 [1819]. Type-species by designation of Scudder, Proc. American Acad. Arts Sci., 10: 260 (1875) *Papilio atalanta* Linnaeus, Syst. Nat., ed. 10, 1: 478 (1758) [see **Note 552**].

= *Ammiralis* Rennie, Conspectus Butts. Moths: 10 (1832). Types-species by monotypy *Papilio atalanta* Linnaeus, Syst. Nat., ed. 10, 1: 478 (1758).

= *Phanessa* Sodovskii, Bull. Soc. Imp. Nat. Moscou, [1837] (6): 80 [1837]. Type-species, as replacement name, *Papilio atalanta* Linnaeus, Syst. Nat., ed. 10, 1: 478 (1758).

= *Neopyrameis* Scudder, Butts. E. U. S. Canada, 1: 434 (1889). Type-species by monotypy *Papilio cardui* Linnaeus, Syst. Nat., ed. 10, 1: 475 (1758).

1. **virginiensis** (Drury) *PAPILIO*. Ill. exot. Ent., 1: index + 10-11 (1773). TL — "Virginia", restricted by Field, Smithsonian Contrib. Zool., 84: 49 (1971). Type lost [see **Note 99**]. **650.**
   = *huntera* (Fabricius) *PAPILIO*. Syst. Ent.: 499 (1775). TL — "in Americae balsamita". Loc. of type not known (Glasgow?) [see **Note 553**].
   = *jole* (Cramer) *PAPILIO*. Uitl. Kapellen, 1: 153 [1776]. TL — "New York". Type probably lost [see **Notes 7** and **554**].
      = f. "fulvia" (Dodge) *PYRAMEIS*. Canadian Ent., 32: 92 (1900). TL not stated (Missouri?). Loc. of type not known.
         = ab. "ahwashtee" C. Fox. Psyche, 28: 45-46 (1921). TL — Golden Gate Park, San Francisco, California. HT in CAS.
         = ab. "massachusettensis" Gunder. Ent. News, 36: 198 (1925). TL — Southampton, Massachusetts. HT in AMNH.
         = ab. "simmsi" (Gunder) *CYNTHIA*. Ent. News, 38: 133-134 (1927).

TL — Montreal, Quebec. HT in BM.

2. **cardui** (Linnaeus) *PAPILIO*. Syst. Nat., ed. 10, 1: 475 (1758). TL — "Sweden" by implication. HT in Linnaean Soc. London [see **Note 75**]. **651.**
   = ab. "ate" (Strecker) *PYRAMEIS*. Butts. Moths N. America: 137-138 (1878). TL — Summit Co., Ohio. HT in FMNH.
   = ‡ ab. "minor" (Cockerell) *PYRAMEIS*. Canadian Ent., 22: 57 (1890). TL — West Cliff, Custer Co., Colorado. HT in BM. Preoccupied by *Vanessa cardui* ab. "minor" Failla-Tedaldi, Nat. Siciliano, 7: 70-71 (1887).
   = ab. "jacksoni" (A. H. Clark) *CYNTHIA*. Butts. Dist. Columbia. . .: 88-89 (1932). TL — "District of Columbia". Types not mentioned, but if they exist, they are in USNM.

3. **annabella** (Field) *CYNTHIA*. Smithsonian Contrib. Zool., 84: 56-59 (1971). TL — First valley W of Arroyo Verde Park, Ventura, Ventura Co., California. HT in USNM [see **Notes 555** and **556**]. **652.**
   = ab. "muelleri" (Letcher) *PYRAMEIS*. Ent. News, 9: 38 (1898). TL — San Francisco, California. Loc. of type not known (may have been in CAS).
   = ab. "intermedia" F. Grinnell. Psyche, 25: 111-112 (1918). TL — Berkeley and San Francisco, California. ST's were in Cottle colln.
   = ab. "letcheri" F. Grinnell. Psyche, 25: 112-113 (1918). TL — various locs. in California, mostly around San Francisco. ST's were in Cottle colln.
   = ab. "nivosa" (Gunder) *CYNTHIA*. Bull. S. California Acad. Sci., 26: 53 (1927). TL — San Francisco, California. HT in AMNH.
   = ab. "schraderi" (Gunder) *CYNTHIA*. Pan-Pac. Ent., 6: 9 (1929). TL — Los Angeles, California. HT in AMNH.

*4. **atalanta** (Linnaeus) *PAPILIO*. Syst. Nat., ed. 10, 1: 478 (1758). TL — "Sweden" by implication. HT in Linnaean Soc., London [see **Note 75**].
   a. **a. rubria** (Fruhstorfer) *PYRAMEIS*. Int. Ent. Zts. (Guben), 3: 44 (1909). TL — "Mexico", restricted by Field, Smithsonian Contrib. Zool., 84: 16-17 (1971). LT in MNHN, designated by Field, Smithsonian Contrib. Zool., 84: 17 (1971). **653a.**
      = ab. "edwardsi" F. Grinnell. Psyche, 25: 113-114 (1918). TL — various San Francsico Bay area locs. ST's were in Cottle colln.

Genus CCVI: **Hypanartia** Hübner

Samml. exot. Schmett., 2: pl. [26] [1821]. Type-species by monotypy *Hypanartia demonica* Hübner, Samml. exot. Schmett., 2: pl. [26] [1821] (=*Papilio lethe* Fabricius, Ent. Syst., 3: 80; 1793) [see **Note 557**].
   = ‡ *Eurema* Doubleday, List Lepid. Ins. British Mus., 1: 83 (1844). Type-species by designation of Hemming, Entomologist, 66: 223 (1933) *Papilio lethe* Fabricius, Ent. Syst., 3: 80 (1793). Preoccupied by *Eurema* Hübner, Verz. bekannt. Schmett., (6): 96 [1819].
   = ‡ *Heurema* Herrich-Schäffer, CorrespBl. zool.-min. Ver. Regensburg, 19: 89 (1865). Type-species, as replacement name, *Papilio lethe* Fabricius, Ent. Syst., 3: 80 (1793). Proposed to replace *Eurema* Doubleday (see above). Preoccupied by *Heurema* Agassiz, Nomencl. Zool.: 181 (1846).

1. **lethe** (Fabricius) *PAPILIO*. Ent. Syst., 3: 80 (1793). TL — "Indiis". Type lost, was in Jones collection. **654.**
   = *demonica* Hübner. Samml. exot. Schmett., 2: pl. [26] [1821]. TL not stated. Type probably lost [see **Note 9**].

Tribe **Hypolimnini** auct.

Automatic emendation of "Diademinae" Muller, Zool. Jahrb., Ztz. syst. Biol. Geogr. Thiere, 1: 155 (1886). Valid under Art. 40 (a) of Internatl. Code Zool. Nomencl.

= Diademinae Müller, Zool. Jahrb., Zts. Syst. Biol. Geogr. Thiere, 1: 155 (1886) [*Diadema* Boisduval = *Hypolimnas* Hübner].

Genus CCVII: **Hypolimnas** Hübner

Verz. bekannt. Schmett., (3): 45 [1819]. Type-species by designation of Scudder, Proc. American Acad. Arts Sci., 10: 194 (1875) *Papilio pipleis* Linnaeus, Syst. Nat., ed. 10, 1: 476 (1758) *(=Papilio pandarus* Linnaeus, Syst. Nat., ed. 10, 1: 461; 1758) [see **Note 558**].

= *Esoptria* Hübner, Verz. bekannt. Schmett., (3): 45 [1819]. Type-species by designation of Scudder, Proc. American Acad. Arts Sci., 10: 168 (1875) *Papilio bolina* Linnaeus, Syst. Nat., ed. 10, 1: 479 (1758).

= *Diadema* Boisduval, *in* d'Urville, Voy. "Astrolabe", Faun. Ent., 1 (Lepid.): 133 [1832]. Type-species by designation of Blanchard, Hist. Nat. Ins., 3: 451 (1840) *Papilio bolina* Linnaeus, Syst. Nat., ed. 10, 1: 479 (1758).

= *Euryalia* Westwood, Gen. diurn. Lepid., 2: 81 [1850]. Type-species by designation of Scudder, Proc. American Acad. Arts Sci., 10: 173 (1875) *Papilio dubia* Palisot de Beauvois, Ins. Afrique Amerique: 238 [1813-1830].

= *Eucalia* C. Felder, Nova Acta Leop. Carol., 28: 25 (1861). Type-species by designation of Hemming, Proc. R. Ent. Soc. London, (B)8: 134 (1939) *Diadema anthedon* Doubleday, Ann. Mag. Nat. Hist., 16: 181 (1845) *(=Papilio pandarus* Linnaeus, Syst. Nat., ed. 10, 1: 461; 1758).

1. **misippus** (Linnaeus) *PAPILIO.* Lepid. Mus. Ludovicae Ulricae: 264 (1764). TL — "America". Loc. of type not known (Mus. Ludovica Ulrica?) [see **Notes 75** and **559**]. **655.**

Genus CCVIII: **Junonia** Hübner

Verz. bekannt. Schmett., (3): 34 [1819]. Type-species by designation of Scudder, 4th Ann. Rept. Peabody Acad. Sci., [1871]: 43 (1872) *Papilio lavinia* Cramer, Uitl. Kapellen, 1: 32 [1775] [see **Notes 560** and **561**].

= *Alcyoneis* Hübner, Verz. bekannt. Schmett., (3): 35 [1819]. Type-species by designation of Hemming, Entomologist, 66: 197 (1933) *Alcyoneis almane* Hübner, Verz. bekannt. Schmett., (3): 35 [1819] *(=Papilio almana* Linnaeus, Syst. Nat., ed. 10, 1: 472; 1758).

= *Aresta* Billberg, Enum. Ins. Mus. Billberg.: 79 (1820). Type-species by designation of Scudder, Proc. American Acad. Arts Sci., 10: 117 (1875) *Papilio laomedia* Linnaeus, Syst. Nat., ed. 12, 1: 772 (1767) *(=Papilio atlites* Linnaeus, Amoen. Acad., 6: 407; 1763).

1. **coenia** Hübner. Samml. exot. Schmett., 2: pl. [32] [1822]. TL not stated, but usually considered to be "United States". Type probably lost [see **Notes 9, 562 563** and **564**]. **656.**

= ab. "schraderi" Gunder. Ent. News, 36: 199 (1925). TL — Los Angeles, California. HT in AMNH.

= ab. "wilhelmi" Gunder. Ent. News, 38: 134-135 (1927). TL — Los Angeles, California. HT in AMNH.

= ab. "rubrosuffusa" (Field) *PRECIS.* J. Ent. Zool., 28: 23-24 (1936). TL — Lawrence, Kansas. HT in USNM.

= ab. "rosa" (Whittaker and D. Stallings) *PRECIS.* Ent. News, 55: 91 (1944). TL — Caldwell, Kansas. HT in Stallings colln. (YPM?).

2. **nigrosuffusa** Barnes and McDunnough. Canadian Ent., 48: 222 (1916). TL — "Palmerlee, Babaquivera Mtns., Huachuca Mtns., Arizona". ST's in USNM. **657.**

*3. **evarete** (Cramer) *PAPILIO.* Uitl. Kapellen, 3: 18 [1782]. TL — "Surinam". Type may be lost (BM, Amsterdam?).

= ‡*lavinia* (Cramer) *PAPILIO.* Uitl. Kapellen, 1: 32 [1775]. TL — "Surinam". Loc. of type not known [see **Note 7**]. Preoccupied by *P. lavinia* Fabricius, Syst. Ent.: 450 (1775) [see **Note 565**].

a. **e. genoveva** (Stoll) *PAPILIO. in* Cramer, Uitl. Kapellen, 4: 4 [1782]. TL not stated, probably West Indian, rather than northern South America as stated by F. M. Brown and Heineman, Jamaica and Butts.: 179-180 (1972). Loc. of type not known (BM, Amsterdam?). **658a.**

b. **e. zonalis** C. and R. Felder. Reise. . . Fregatte Novara, 3: 399-400 [1867]. TL — "Colombia, Cuba, Puerto Rico". ST's in BM. **658b.**

Genus CCIX: **Anartia** Hübner

Verz. bekannt. Schmett., (3): 33 [1819]. Type-species by designation of Scudder, Proc. American Acad. Arts Sci., 10: 111 (1875) *Papilio jatrophae* Johansson, Amoen. Acad., 6: 408 (1763) [see **Note 566**].

= *Celoena* Boisduval, Consid. Lepid. Guatemala: 38 (1870). Type-species by monotypy *Papilio fatima* Fabricius, Ent. Syst., 3: 81 (1793).

= *Anatiella* Fruhstorfer, Intl. Ent. Zts. (Guben), 1: 112 (1907). Type-species by monotypy *Vanessa lytrea* Godart, Enc. Meth., 9: 299 [1819].

*1. **jatrophae** (Johansson) *PAPILIO.* Amoen. Acad., 6: 408 (1763). TL —

a. **j. guantanamo** Munroe. American Mus. Novitates, (1179): xxx (1942). TL — **659a.**

b. **j. luteipicta** Fruhstorfer. Intl. Ent. Zts. (Guben), 1: 112 (1907). TL — "Honduras". HT may be in BM or MNHN. **659b.**

2. **chrysopelea** Hübner. Zutr. z. Samml. exot. Schmett., 3: 34 [1824]. TL — "Cuba". Type probably lost [see **Note 567**]. **660.**

= *eurytis* Fruhstorfer. Intl. Ent. Zts. (Guben), 1: 112 (1907). TL — "Antigua". HT may be in BM or MNHN.

3. **fatima** (Fabricius) *PAPILIO.* Ent. Syst., 3: 81 (1793). TL — "Indiis". Type no doubt lost. **661.**

= f. "venusta" Fruhstorfer. Intl. Ent. Zts. (Guben), 1: 111 (1907). TL — "Mexico and Guatemala". ST's may be in BM or MNHN.

Genus CCX: **Siproeta** Hübner

Samml. exot. Schmett., 2: pl. [48] [1823]. Type-species by monotypy *Siproeta trayja* Hübner, Samml. exot. Schmett., 2: pl. [48] [1823] [see **Note 568**].

= *Victorina* Blanchard, Hist. Nat. Ins., 3: 447 (1840). Type-species by original designation *Papilio stelenes* Linnaeus, Syst. Nat., ed. 10, 1: 465 (1758).

= *Amphirene* Doubleday, List. Spec. Lepid. Ins. British Mus., 1: 86 (1844). Type-species by designation of Scudder, Proc. American Acad. Arts Sci., 10: 110 (1875) *Vanessa epaphus* Latreille, *in* Humboldt and Bonpland, Voy. Reg. Equinox. Nouv. Continent, Pt. 2, 2: 74 [1811].

= ‡*Amphirene* Boisduval, Consid. Lépid. Guatemala: 43 (1870). Type-species by monotypy *Vanessa epaphus* Latreille, *in* Humboldt and Bonpland, Voy. Reg. Equinox Nouv. Continent, Pt. 2, 2: 74 [1811]. Preoccupied by *Amphirene* Doubleday, List. Spec. Lepid. Ins. British Mus., 1: 86 (1844).

*1. **stelenes** (Linnaeus) *PAPILIO.* Syst. Nat., ed. 10, 1: 465 (1758). TL — "America", restricted to Jamaica by R. Fox and A. Forbes, Ann. Carnegie Mus.. 43: 238 (1971). ST's in BM [see **Note 569**].

= *lavinia* (Fabricius), *PAPILIO*. Syst. Ent.: 450 (1775). TL — "America", restricted to St. Croix, Virgin Islands, by R. Fox and A. Forbes, Ann. Carnegie Mus., 43: 238 (1971). HT in Kiel.

a. **s. biplagiata** (Fruhstorfer) *VICTORINA*. Stettiner Ent. Ztg., 68: 213 (1907). TL — "Texas, Mexico, Honduras", restricted to San Pedro Sula, Honduras by R. Fox and A. Forbes, Ann. Carnegie Mus., 43: 236 (1971). LT in BM, designated by R. Fox and A. Forbes, Ann. Carnegie Mus., 43: 236 (1971). **662a.**

= *insularis* (Holland) *VICTORINA*. Ann. Carnegie Mus., 10: 493 (1916). TL — Nueva Gerona, Isle of Pines, Cuba. LT in CM, designated by F. M. Brown, *in* R. Fox and A. Forbes, Ann. Carnegie Mus., 43: 237 (1971).

= f. "pallida" (Fruhstorfer) *VICTORINA*. Stettiner Ent. Ztg., 68: 14 (1907). TL — "S. Mexico". HT in BM.

= ab. "stygiana" (Schaus) *VICTORINA*. Proc. Zool. Soc. London, [1913]: 348 (1913). TL — Avangarez, Costa Rica. HT in USNM.

Subfamily **Limenitidinae** Behr

Proc. California Acad. Nat. Sci., 3: 127 (1864) (as "Limenitidae") [see **Note 1**].

Tribe **Limenitidini** Behr

Proc. California Acad. Nat. Sci., 3: 127 (1864) (as "Limenitidae") [see **Note 1**].

Genus CCXI: **Basilarchia** Scudder

4th Ann. Rept. Peabody Acad. Sci., [1871]: 29 (1872). Type-species by original designation *Papilio astyanax* Fabricius, Syst. Ent.: 447 (1775) (=*Papilio arthemis* Drury, Ill. Nat. Hist., 2: index et 17 [1773]; subspecies) [see **Note 570**].

= ‡ *Callianira* Hübner, Verz. bekannt. Schmett., (3): 38 [1819]. Type-species by monotypy *Callianira ephestiaena* Hübner, Verz. bekannt. Schmett., (3): 38 [1819], figured by Stoll, Aanhangs. Werk Uitl. Kapellen Pieter Cramer: pl. 25, fig. 1 [1790] and named *Papilio ephestion* on p. 121 (=*Papilio astyanax* Fabricius, Syst. Ent.: 447; 1775 = *Papilio arthemis* Drury, Ill. Nat. Hist., 2: index et 17 [1773]; subspecies. Preoccupied by *Callianira* Peron and Leseur, Ann. Mus. Hist. Nat. Paris, 15(85): 65 (1810).

= ‡ *Nymphalis* C. Felder, Nova Acta Leopold. Carol., 28(3): 41 (1861). Type-species by designation of Hemming, Entomologist, 67: 37 (1934) *Papilio astyanax* Fabricius, Syst. Ent.: 447 (1775) (=*Papilio arthemis* Drury, Ill. Nat. Hist., 2: index et 17 [1773]; subspecies). Preoccupied by *Nymphalis* Kluk, Zwierz. Hist. Nat. Pocz. Gospod., 4: 86 (1802) and *Nymphalis* Latreille, Nouv. Dict. Hist. Nat., 24 (Tab.): 184, 199 (1804).

1. **arthemis** (Drury) *PAPILIO*. Ill. Nat. Hist., 2: index et 17 [1773]. TL — "New York". Type lost [see **Note 99**].

a. **a. arthemis** (Drury) *PAPILIO*. Ill. Nat. Hist., 2: index et 17 [1773]. TL — "New York". Type lost [see **Notes 99** and **557**]. **663a.**

= *lamina* (Fabricius) *PAPILIO*. Ent. Syst., 3: 118 (1793). TL — "Indiis". Type lost, a Drury specimen [see **Note 99**].

= f. "proserpina" (W. H. Edwards) *LIMENITIS*. Proc. Ent. Soc. Philadelphia, 5: 148 (1865). TL — vic. Hunter, Greene Co., New York. LT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 93: 360 (1967) [see **Note 572**].

= f. "albofasciata" (Newcomb) *LIMENITIS*. Psyche, 14: 90-91

(1907). TL — "Massachusetts, New York, New Jersey". Loc. of types not known (MCZ?).

= f. "virithemis" Field. J. Ent. Zool., 28: 24 (1936). TL — Germania, Pennsylvania. HT in USNM.

= ab. "rufescens" (Cockerell) *LIMENITIS.* Entomologist, 22: 4 (1889). TL — "southern states". Loc of type not known (name based on Maynard description?).

= ab. "cerulea" (Ehrmann) *LIMENITIS.* Canadian Ent., 32: 348 (1900). TL — "SW Pennsylvania". ST's in CM.

= ab. "benjamini" Nakahara. Bull. Brooklyn Ent. Soc., 19: 171 (1924). TL — "Massachusetts". HT in USNM.

b. **a. rubrofasciata** Barnes and McDunnough. Canadian Ent., 98: 221-222 (1916). TL — "Manitoba, Saskatchewan, Alberta". ST's in USNM [see **Note 573**]. **663b.**

c. **a. astyanax** (Fabricius) *PAPILIO.* Syst. Ent.: 447 (1775). TL — "America". Type(s), Hunter specimens, should be in Glasgow [see **Note 574**]. **663c.**

= *ephestion* (Stoll) *PAPILIO.* Aanhangs. Werk Uitl. Kapellen Pieter Cramer: 121 [1790]. TL — "Africa", in error. Type probably lost [see **Note 15**].

= *ursula* (Fabricius) *PAPILIO.* Ent. Syst., 3: 857 (1793). TL — "America". ST's should be in Glasgow.

= *ephestiaena* (Hübner) *CALLIANIRA.* Verz. bekannt. Schmett., (3): 38 [1819]. TL — "Africa", in error, after Stoll (see below). Type existed only as Stoll's figure of *Papilio ephestion,* Aanhangs. Werk Uitl. Kapellen Pieter Cramer: pl. 25, fig. 1 [1790].

= f. "viridis" (Strecker) *LIMENITIS.* Butts. Moths N. America: 144 (1878). TL not stated. Loc. of type (if one exists) not known (FMNH?).

= f. "atlantis" Nakahara. Ent. News, 34: 10 (1923). TL — Elmhurst, Long Island, New York. HT in USNM.

= f. "inornata" Nakahara. Bull. Brooklyn Ent. Soc., 19: 174 (1924). TL — Glendale, Long Island, New York. HT in USNM.

= f. "purpuratus" Gunder. Canadian Ent., 66: 43-44 (1934). TL — Scranton, Pennsylvania. HT in AMNH.

= f. "tildeni" Field. Canadian Ent., 66: 255-256 (1934). TL — vic. Lawrence, Kansas. HT in USNM.

d. **a. arizonensis** (W. H. Edwards) *LIMENITIS.* Papilio, 2: 22 (1882). TL — vic. Tucson, Arizona. LT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 93: 361-362 (1967). **663d.**

= ab. "doudoroffi" Gunder. Canadian Ent., 66: 44 (1934). TL — Tonto Cr. nr. Payson, Gila Co., Arizona. HT in AMNH.

2. **archippus** (Cramer) *PAPILIO.* Uitl. Kapellen, 1: 24 [1776]. TL — "Jamaica", but more likely "New York". Type probably lost [see **Note 7**].

a. **a. archippus** (Cramer) *PAPILIO.* Uitl. Kapellen, 1: 24 [1776]. TL — "Jamaica", but more likely "New York". Type probably lost [see **Notes 7** and **575**]. **664a.**

= *disippe* (Godart) *NYMPHALIS.* Enc. Meth., 9: 393 [1824]. TL — "Guyane", surely in error. Type(s) may be in MNHN [see **Note 576**].

= f. "advena" (Ellsworth) *LIMENITIS.* The Lepidopterist, 2: 22 (1918). TL — Johnson City, New York. ST's in USNM.

= ab. "pseudodorippus" (Strecker) *LIMENITIS.* Butts. Moths N. America: 143 (1878). TL — Catskill Mtns., New York and Holyoke, Massachusetts. ST's in FMNH and CM.

= ab. "lanthanis" Cook and Watson. Canadian Ent., 41: 77 (1909). TL — Albany, New York. HT in AMNH.

= ab. "cayuga" Nakahara. Ent. News, 34:10 (1923). TL — Ithaca,

New York. HT in USNM.
= ab. "nivosus" Gunder. Bull. Brooklyn Ent. Soc., 24: 325 (1929). TL — Mystic, Connecticut. HT in AMNH.

b. **a. floridensis** (Strecker) *LIMENITIS.* Butts. Moths N. America: 143 (1878). TL — "Florida and other parts of the extreme south". ST's may be in FMNH. **664b.**
= *eros* (W. H. Edwards) *LIMENITIS.* Canadian Ent., 12: 246-251 (1880). TL — vic. Georgiana, Merritt I., Indian R., Brevard Co., Florida. LT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 93: 364 (1967). May not be synonymous.
= ab. "nig." (Strecker) *LIMENITIS.* Butts. Moths N. America: 143 (1878). TL — "Florida". HT in FMNH.
= ab. "nigricans" (Strecker) *LIMENITIS.* Lep. Rhop. Het., Suppl. 3: 24 (1900). TL — "Florida". HT in FMNH (the same specimen as for "nig.").
= ab. "halli" Cook and Watson. Bull. American Mus. Nat. Hist., 42: 449 (1920). TL — "Florida". HT in AMNH.

c. **a. watsoni** dos Passos. Canadian Ent., 70: 243 (1938). TL — Alexandria, Louisiana. HT in AMNH. **664c.**

d. **a. obsoleta** (W. H. Edwards) *LIMENITIS.* Papilio, 2: 22 (1882). TL — "southern Arizona". Types lost (F. M. Brown, Trans. American Ent. Soc., 93: 365-366; 1967). **664d.**
= *hulstii* (W. H. Edwards) *LIMENITIS.* Papilio, 2: 46-47 (1882). TL — "Utah". HT in CM. May not be synonymous.

e. **a. lahontani** (Herlan) *LIMENITIS.* J. Res. Lepid., 9: 217-222 (1971). TL — Fernley, Lyon Co., Nevada. HT in LACM. **664e.**

3. **weidemeyerii** (W. H. Edwards) *LIMENITIS.* Proc. Acad. Nat. Sci. Philadelphia, 13: 162 (1861). TL — Lakewood, Jefferson Co., Colorado, restricted by F. M. Brown, Trans. American Ent. Soc., 93: 369-370 (1967). NT in CM, designated by E. M. and S. F. Perkins, *in* F. M. Brown, Trans. American Ent. Soc., 93: 370-371 (1967).

a. **w. oberfoelli** (F. M. Brown) *LIMENITIS.* American Mus. Novitates, (2018): 1-6 (1960). TL — Badlands, Slope Co., North Dakota. HT in AMNH. **665a.**

b. **w. weidemeyerii** (W. H. Edwards) *LIMENITIS.* Proc. Acad. Nat. Sci. Philadelphia, 13: 162 (1861). TL — Lakewood, Jefferson Co., Colorado, restricted by F. M. Brown, Trans. American Ent. Soc., 93: 369-370 (1967). NT in CM, designated by E. M. and S. F. Perkins, *in* F. M. Brown, Trans. American Ent. Soc., 93: 370-371 (1967) [see **Note 577**]. **665b.**
= ab. "nigerrima" Cockerell. Bull. S. California Acad. Sci., 26: 5 (1927). TL — Boulder, Boulder Co., Colorado. HT in USNM.

c. **w. latifascia** (E. M. and S. F. Perkins) *LIMENITIS.* J. Lepid. Soc., 21: 221-222 (1967). TL — Mink Cr., 10 mi. S Pocatello, Bannock Co., Idaho. HT in AMNH. **665c.**

d. **w. nevadae** Barnes and Benjamin. Contrib. Nat. Hist. Lepid. N. America, 5: 99 (1924). TL — Spring Mtn. Range, Clark Co., Nevada, restricted by E. M. and S. F. Perkins, J. Lepid. Soc., 21: 220-221 (1967). HT in USNM [see **Note 578**]. **665d.**

e. **w. angustifascia** Barnes and Benjamin. Canadian Ent., 44: 163 (1912). TL — White Mtns., SE McNary, Apache Co., Arizona, restricted by E. M. and S. F. Perkins, J. Lepid. Soc., 21: 220 (1967). HT(?) in USNM. **665e.**
= *sinefascia* Barnes and Benjamin. Bull. S. California Acad. Sci., 25: 15 (1926). TL — nr. Prescott, Arizona, restricted by F. M. Brown, Trans. American Ent. Soc., 93: 371-372 (1967). HT in CM. Raising in status of W. H. Edwards' aberrational name.
= ab. "sinefascia" (W. H. Edwards) *LIMENITIS.* Papilio, 2: 22 (1882). TL — nr. Prescott, Arizona, restricted by F. M. Brown,

Trans. American Ent. Soc., 93: 371-372 (1967). HT in CM.

4. **lorquini** (Boisduval) *LIMENITIS.* Ann. Soc. Ent. France, (2)10: 301 (1852). TL — "California". HT apparently in USNM [see **Note 22**].

a. l. **burrisoni** (Maynard) *LIMENITIS.* Man. N. American Butts.: 102 (1891). **666a.** TL — Landsdowne, British Columbia. Loc. of type not known.
= normal f. "maynardi" Field. J. Ent. Zool., 28: 24-25 (1936). TL — Vancouver, British Columbia. HT in USNM.

b. l. **lorquini** (Boisduval) *LIMENITIS.* Ann. Soc. Ent. France, (2)10: 301 (1852). **666b.** TL — "California". HT apparently in USNM [see **Notes 22** and **578**].
= f. eavesii (Hy. Edwards) *LIMENITIS.* Proc. California Acad. Sci., 7: 172 (1877). TL — vic. Virginia City, Nevada. HT in AMNH.
= ab. "comstocki" Gunder. Ent. News, 36: 5 (1925). TL — nr. Bishop, Inyo Co., California. HT in LACM.
= ab. "gunderi" Field. J. Ent. Zool., 28: 24 (1936). TL — El Dorado Co., California. HT in USNM.
= ab. "powelli" Field. J. Ent. Zool., 28: 24 (1936). TL — San Bernardino, California. HT in USNM.

Genus CCXII: **Adelpha** Hübner

Verz. bekannt. Schmett., (3): 42 [1819]. Type-species by designation of Scudder, Proc. American Acad. Arts Sci., 10: 102 (1875) *Papilio mesentina* Cramer, Uitl. Kapellen, 2: 102 [1777] [see **Note 579**].
= *Heterochroa* Boisduval, *in* Roret's Suites á Buffon, Hist. Nat. Ins., Spec. gén. Lépid., 1: pl. 8 [1836]. Type-species by monotypy *Heterochroa serpa* Boisduval, *in* Roret's Suites a Buffon, Hist. Nat. Ins., Spec. gén. Lépid., 1: pl. 8 [1836].

1. **fessonia** (Hewitson) *HETEROCHROA.* Ann. Mag. Nat. Hist., 20: 260 (1847). **667.** TL — "Nicaragua". HT in BM.

*2. **bredowii** Geyer. Zutr. z. Samml. exot. Schmett.: figs. 825-826 [1837]. TL — "Mexico". Type probably lost [see **Note 11**].

a. **b. eulalia** (Doubleday and Hewitson) *LIMENITIS.* Gen. diurn. Lepid., 1: **668a.** pl. 36, fig. 1 [1848]. TL — "Mexico". HT in BM.

b. **b. californica** (Butler) *HETEROCHROA.* Proc. Zool. Soc. London, [1865]: **668b.** 485 (1865). TL — "California". HT in BM.

Tribe **Epicaliini** Müller

Zool. Jahrb., Zts. Syst. Biol. Geogr. Thiere, 1: 88 (as "Epicaliinae") (1886) [see **Note 1**].
= Eunicinae Aurivillius, *in* Seitz, Grossschmett. Erde, 13: 204 (1913).
= Catagrammidi Seitz, Grossschmett. Erde, 5: 490 (1915).
= Callicorini Orfila, Ann. Soc. Cient. Argentina, 154: 102 (1952).
= Catonephelini Orfila, Ann. Soc. Cient. Argentina, 154: 103 (1952).

Genus CCXIII: **Myscelia** Doubleday

List. Spec. Lepid. Ins. British Mus., 1: 88 (1844). Type-species by designation of Barnes and Benjamin, Bull. S. California Acad. Sci., 25: 15 (1926) *Papilio orsis* Drury, Ill. Nat. Hist., 3: index et 20 [1782].
= ‡ *Sagaritis* Hübner, Samml. exot. Schmett., 2: pl. [43] [1821]. Type-species by monotypy *Sagaritis orseis* Hübner, Samml. exot. Schmett., 2: pl. [43] [1821] (=*Papilio orsis* Drury, Ill. Nat. Hist., 3: index et 20 [1782]). Preoccupied by *Sagaritis* Billberg, Enum. Ins. Mus. Billberg: 134 (1820).

1. **ethusa** (Boisduval) *CYBDELIS. in* Cuvier, Regne. Anim. Ins., 2: pl. 138, fig. 3 **669.**

(1836). TL — "Mexico". HT may be in MNHN.
= *cyanecula* C. and R. Felder. Reise Freg. Novara, 3: 408 [1866]. TL — "Mexico". ST's may be in BM.

*2. **skinneri** Mengel. Ent. News, 5: 96 (1894). TL — Bayemena, Sinaloa, Mexico. ST's in Reading Public Mus and FMNH. **670.**

*3. **streckeri** Skinner. Trans. American Ent. Soc., 16: 87 (1889). TL — "Lower California". ST's in MCZ. **671.**

4. **cynanthe** C. and R. Felder. Reise Freg. Novara, 3: 408-409 [1866]. TL — "Mexico". HT in BM (Kaden colln.). **672.**

Genus CCXIV: **Eunica** Hübner

Verz. bekannt. Schmett., (4): 61 [1819]. Type-species by designation of Scudder, Proc. American Acad. Arts Sci., 10: 171 (1875) *Papilio monima* Stoll, *in* Cramer, Uitl. Kapellen, 4: 202 [1782].

= *Evonyme* Hübner, Verz. bekannt. Schmett., (4): 61 [1819]. Type-species by designation of Scudder, Proc. American Acad. Arts Sci., 10: 176 (1875) *Papilio amelia* Cramer, Uitl. Kapellen, 2: 61 [1777].

= ‡ *Eunice* Geyer, *in* Hübner, Zutr. z. Samml. exot. Schmett., 4: 39 [1832]. Type-species by designation of Hemming, Proc. R. Ent. Soc. London, (B)8: 134 (1939) *Eunice taurione* Geyer, *in* Hübner, Zutr. z. Samml. exot. Schmett., 4: 39 [1832] (=*Papilio monima* Stoll, *in* Cramer, Uitl. Kapellen, 4: 202 [1782]; subspecies). Preoccupied by *Eunice* Rafinesque, Analyse Nat.: 135 (1816) and *Eunice* Schinz, *in* Cuvier, Thierreich, 2: 310 (1822).

= ‡ *Crenis* Boisduval, Nouv. Ann. Mus. Hist. Nat. Paris, 2(2): 196 (1833). Type-species by monotypy *Crenis madagascariensis* Boisduval, Nouv. Ann. Mus. Hist. Nat. Paris., 2(2): 196 (1833). Preoccupied by *Crenis* Hübner, Index exot. Lepid.: [2] (1821).

= ‡ *Callianira* Doubleday and Hewitson, Gen. diurn. Lepid., 1: pl. 28, fig. 1 [1847]. Type-species by monotypy *Callianira alcmena* Doubleday and Hewitson, Gen. diurn. Lepid., 1: pl. 28, fig. 1 [1847]. Preoccupied by *Callianira* Peron and Leseur, Ann. Mus. Hus. Nat. Paris, 15(85): 65 (1810) and by *Callianira* Hübner, Verz. bekannt. Schmett., (3): 38 [1819].

= *Faunia* Poey, Mem. Soc. Econ. Habana, (2)3: 178 (1847). Type-species by monotypy *Papilio orphise* Cramer, Uitl. Kapellen, 1: 67 [1775].

= ‡ *Amycla* Doubleday, Gen. dirun. Lepid., 1: 223 [1849]. Type-species by monotypy *Eunice taurione* Geyer, *in* Hübner, Zutr. z. Samml. exot. Schmett., 4: 39 [1832] (=*Papilio monima* Stoll, *in* Cramer, Uitl. Kapellen, 4: 202 [1782]; subspecies). Preoccupied by *Amycla* Rafinesque, Analyse Nat.: 118 (1815).

= *Sallya* Hemming, Anot. Lepid., (4): 139 (1964). Type-species, as replacement name, *Crenis madagascariensis* Boisduval, Nouv. Ann. Mus. Hist. Nat. Paris, 2(2): 196 (1833).

1. **monima** (Stoll) *PAPILIO in* Cramer, Uitl. Kapellen, 4: 202 [1782]. TL — "Guinea", more likely Surinam. Type probably lost [see **Note 15**]. **673.**
= *hyperipte* Hübner. Samml. exot. Schmett., 2: pl. [87] [1823]. TL not stated. Loc. of type not known [see **Note 9**].
= *myrto* (Godart) *NYMPHALIS.* Enc. Meth.: 418 [1824]. TL — "Guinea?". Loc. of type not known; may have been a replacement name for *monima* for some reason [see **Note 580**].
= *modesta* H. W. Bates. Ent. Mo. Mag., 1: 113 (1864). TL — "Guatemala". HT in BM.

*2. **tatila** (Herrich-Schäffer) *CYBDELIS.* Exot. Schmett.: figs. 69-72 (1853). TL not stated, but figure looks like continental specimen. Loc. of type not known (Vienna?).

= *coerulea* Godman and Salvin. Proc. Zool. Soc. London, [1877]: 64 (1877). TL — Polochic valley, Guatemala. HT in BM.

a. t. **tatilista** Kaye. Trans. Ent. Soc. London, [1925]: 472-473 (1926). TL — Rae Town, Jamaica. HT in AME. **674a.**

Genus CCXV: **Dynamine** Hübner

Verz. bekannt. Schmett., (3): 41 [1819]. Type-species by designation of Scudder, Proc. American Acad. Arts Sci., 10: 160 (1875) *Papilio mylitta* Cramer, Uitl. Kapellen, 3: 107 [1779] [see **Note 581**].

= *Sironia* Hübner, Zutr. z. Samml. exot. Schmett., 2: 31 [1823]. Type-species by monotypy *Sironia tithia* Hübner, Zutr. z. Samml. exot. Schmett., 2: 31 [1823] [see **Note 582**].

= *Eubagis* Boisduval, *in* d'Urville, Voy. Astrolabe, Faun. Ent., 1 (Lepid.): 70 [1832]. Type-species by monotypy *Papilio athemon* Linnaeus, Syst. Nat., ed. 10, 1: 484 (1758) [see **Note 583**].

= *Arisba* Doubleday, List Spec. Lepid. Ins. British Mus., 2: 11 (1847). Type-species by monotypy *Papilio agacles* Dalman, Analecta Ent.: 47 (1823).

1. **dyonis** Geyer. *in* Hübner, Zutr. z. Samml. exot. Schmett.: figs. 871-872 [1837]. TL — "Mexico". Type may be lost [see **Note 11**]. **675.**

Genus CCXVI: **Diaethria** Billberg

Enum. Ins. Mus. Billberg.: 78 (1820). Type-species by monotypy *Papilio clymena* Cramer, Uitl. Kapellen, 1: 38 [1776] [see **Note 584**].

= *Corecalla* Röber, *in* Seitz, Grossschmett. Erde, 5: 501 (1916). Type-species by designation of Hemming, Gen. Names Holarctic Butts., 1: 85 (1934) *Papilio clymena* Cramer, Uitl. Kapellen, 1: 38 [1776].

1. **clymena** (Cramer) *PAPILIO.* Uitl. Kapellen, 1: 38 [1776]. TL — "West Indies and Essequebo [British Guiana]". Type probably lost [see **Note 7**]. **676.**
2. **asteria** (Godman and Salvin) *CALLICORE.* Ann. Mag. Nat. Hist., (6)14: 97 (1894). TL — San Blas, [Nayarit], Mexico. HT in BM [see **Note 585**]. **677.**

Tribe **Eurytelini** Doubleday

List Spec. Lepid. Ins. British Mus., 1: 110 (1844).

= Ergolini Seitz, Grossschmett. Erde, 5: 465 (1921).

Genus CCXVII: **Mestra** Hübner

Samml. exot. Schmett., 2: pl. [45] [1825]. Type-species by monotypy *Mestra hypermnestra* Hübner, Samml. exot. Schmett.: pl. [45] [1825] [see **Note 586**].

= *Cystineura* Boisduval, Hist. Nat. Ins., Spec. Gén. Lépid., 1: pl. 9 [1836]. Type-species by monotypy *Papilio hersilia* Fabricius, Gen. Ins.: 265 (1777) (=*Papilio dorcas* Fabricius, Syst. Ent.: 508; 1775) [see **Note 587**].

1. **amymone** (Ménétriés) *CYSTINEURA.* Cat. Lepid. Mus. Imp. Petropolitana: 123 (1857). TL — "Nicaragua". Type may be in Leningrad [see **Note 588**]. **678.**

*2. **cana** (Erichson) *CYSTINEURA. in* Schomburgk, Reise Britisch Guiana, 3: 599 (1848). TL — "Guiana" Loc. of type not known (ZMHU?).

* a. **c. floridana** (Strecker) *CYSTINEURA.* Lepid. Rhop. Het., suppl. 3: 24 (1900). TL — "Everglades of Florida." Type probably lost [see **Note 589**]. **679a.**

Genus CCXVIII: **Biblis** Fabricius

Mag. f. Insektenk., 6: 281 (1807). Type-species by absolute tautonymy (Art.

68[d]) *Papilio biblis* Fabricius, Syst. Ent.: 505 (1775) (not Drury, Ill. Nat. Hist., 1: index et 9 [1773]) (=*Papilio hyperia* Cramer, Uitl. Kapellen, 3: 74 [1779]) [see **Note 590**].

= *Zonaga* Billberg, Enum. Ins. Mus. Billberg.: 78 (1820). Type-species by monotypy *Papilio biblis* Fabricius, Syst. Ent.: 505 (1775) (not Drury, Ill. Nat. Hist., 1: index et 9 [1773]) (= *Papilio hyperia* Cramer, Uitl. Kapellen, 3: 74 [1779]) [see **Note 591**].

*1. **hyperia** (Cramer) *PAPILIO.* Uitl. Kapellen, 3: 74 [1779]. TL — "St. Thomas". Type may be lost [see **Note 7**].

= ‡ *biblis* (Fabricius) *PAPILIO.* Syst. Ent.: 505 (1775). TL — "America". Probable HT in Kiel. Preoccupied by *Papilio biblis* Drury, Ill. Nat. Hist., 1: index et 9 [1773].

= *thadana* Godart. Enc. Meth., 9: 326 [1819]. Name proposed to replace *biblis* on grounds of tautonymy. Probable HT in Kiel.

a. **h. aganisa** Boisduval. Hist. Nat. Ins., Spec. Gén. Lépid., 1: pl. 9 (1836). TL — "Mexico". Type may be in MNHN. **680a.**

Tribe **Ageroniini** Seitz

Grossschmett. Erde, 5: 535 (as "Ageroniidi") (1921).

= Hamadryini Orfila, Acta Zool. Lilloana, 8: 585 (1949) [see **Note 592**].

Genus CCXIX: **Hamadryas** Hübner

Samml. exot. Schmett., 1: pl. [47] [1806]. Type-species by monotypy *Papilio amphinome* Linnaeus, Syst. Nat., ed. 12, 1: 779-780 (1767).

= ‡ *Apatura* [Illiger], Allgem. Lit. Ztg. Halle, [1807]: 1181 (1807). Type-species by monotypy *Papilio amphinome* Linnaeus, Syst. Nat., ed. 12, 1: 779-780 (1767). Name placed on Off. Index Rejected Names (I. C. Z. N. Opi. 232; 1954).

= *Ageronia* Hübner, Verz. bekannt. Schmett., (3): 42 [1819]. Type-species by designation of Scudder, Proc. American Acad. Arts Sci., 10: 104 (1875) *Papilio chloe* Stoll, Aanhangs. Werk Uitl. Kapellen Pieter Cramer: 22 [1787].

= *Philocala* Billberg, Enum. Ins. Mus. Billberg: 79 (1820). Type-species by designation of Scudder, Proc. American Acad. Arts Sci., 10: 248 (1875) *Papilio amphinome* Linnaeus, Syst. Nat., ed. 12, 1: 779-780 (1767).

= *Peridromia* Boisduval, Hist. Nat. Ins., Spec. Gén. Lépid., 1: pl. 23 [1836]. Type-species by monotypy *Papilio arethusa* Cramer, Uitl. Kapellen, 1: 122 [1775] (= *Papilio laodamia* Cramer, Uitl. Kapellen, 1: 49 [1777]).

= *Amphichlora* C. Felder, Nova Acta Leopold Carol., 28: 19 (1861). Type-species by designation of Scudder, Proc. American Acad. Arts Sci., 10: 109 (1875) *Papilio feronia* Linnaeus, Syst. Nat., ed. 10, 1: 473 (1758).

*1. **fornax** (Hübner) *AGERONIA.* Samml. exot. Schmett., 2: pl. [40] [1823]. TL not stated. Type probably lost [see **Note 9**].

a. **f. fornacalia** (Fruhstorfer) *AGERONIA.* Stettiner Ent. Ztg., 68: 16 (1907). TL — "Mexico, Guatemala, Colombia, Chiriqui, S. Peru, S. Brasil". ST's at least in BM, CM and ZMHU. **681a.**

*2. **feronia** (Linnaeus) *PAPILIO.* Syst. Nat., ed. 10, 1: 473 (1758). TL — "India". Loc. of type not known (Uppsala, Linnaean Soc. London?).

a. **f. farinulenta** (Fruhstorfer) *AGERONIA. in* Seitz, Grossschmett. Erde, 5: 542 (1916). TL — "Honduras". HT in BM. **682a.**

*3. **februa** (Hübner) *AGERONIA.* Samml. exot. Schmett., 2: pl. [41] [1823]. TL not stated. Type probably lost [see **Note 9**].

a. **f. gudula** (Fruhstorfer) *AGERONIA. in* Seitz, Grossschmett. Erde, 5: **683a.**

539-540 (1916). TL — "western Mexico". ST's should be in BM.
= f. "sodalia" (Fruhstorfer) *AGERONIA. in* Seitz, Grossschmett. Erde, 5: 540 (1916). TL — "eastern and southern Mexico". ST's should be in BM.

*4. **ferox** (Staudinger) *AGERONIA.* Exot. Tagf., 1: 127 (1888). TL — Cauca Valley, Colombia. HT probably in ZMHU. 684.

*5. **amphinome** (Linnaeus) *PAPILIO.* Syst. Nat., ed. 12, 1: 779-780 (1767). TL — "America meridionali", probably Surinam. HT may be in Uppsala or Linnaean Soc., London.

a. **a. mexicana** (Lucas) *PERIDROMIA.* Rev. Zool., [1853]: 331 (1853). TL — "Mexico". Loc. of type not known (MNHN?). 685a.

Tribe **Coloburini** Orfila

Acta zool. Lilloana, 7: 232 (1949).
= Gynaeciidae Seitz, Grossschmett. Erde, 5: 470 (1921) [see **Note 593**].

Genus CCXX: **Historis** Hübner

Verz. bekannt. Schmett., (3): 35 [1819]. Type-species by designation of Barnes and Benjamin, Bull. S. California Acad. Sci., 25: 16 (1926) *Papilio odius* Fabricius, Syst. Ent.: 457 (1775).
= *Coea* Hübner, Verz. bekannt. Schmett., (3): 48 [1819]. Type-species by designation of Scudder, Proc. American Acad. Arts Sci., 10: 144 (1875) *Papilio acheronta* Fabricius, Syst. Ent.: 501 (1775).
= *Aganisthos* Boisduval and Leconte, Hist. Lépid. Amerique sept.: 194 [1834]. Type-species by monotypy *Papilio orion* Fabricius, Syst. Ent.: 485 (1775) (= *Papilio odius* Fabricius, Syst. Ent.: 457; 1775; subspecies) [see **Note 594**].
= *Megistanis* Doubleday, List. Spec. Lepid. Ins. British Mus., 1: 109 (1844). Type-species by designation of Hemming, Proc. R. Ent. Soc. London, (B)8: 134 (1939) *Papilio cadmus* Cramer, Uitl. Kapellen, 1: 33 [1775] (= *Papilio acheronta* Fabricius, Syst. Ent.: 501; 1775; subspecies).
= ‡ *Megistanis* Boisduval, Consid. Lepid. Guatemala: 53 (1870). Type-species by monotypy *Papilio pherecydes* Stoll, *in* Cramer, Uitl. Kapellen, 4: 80 [1780] (= *Papilio acheronta* Fabricius, Syst. Ent.: 501; 1775). Preoccupied by *Megistanis* Doubleday, List. Spec. Lepid. Ins. British Mus., 1: 109 (1844).

1. **odius** (Fabricius) *PAPILIO.* Syst. Ent.: 501 (1775). TL — "Indiis". HT may be in BM or lost [see **Note 595**]. 686.

*2. *acheronta* (Fabricius) *PAPILIO.* Syst. Ent.: 501 (1775). TL — "Brasil". Type lost — a Drury specimen [see **Note 99**].
= *pherecydes* (Stoll) *PAPILIO. in* Cramer, Uitl. Kapellen, 4: 80 1780. TL — "Surinam". Type may be in Leiden or lost [see **Note 15**].

a. **a. cadmus** (Cramer) *PAPILIO.* Uitl. Kapellen, 1: 33 [1775]. TL — "Jamaica". ST's may be in Leiden (see F. M. Brown and Heineman, Jamaica. . .Butts.: 145 (1972) for details). 687a.

Genus CCXXI: **Smyrna** Hübner

Samml. exot. Schmett., 2: pl. [65] [1823]. Type-species by monotypy *Papilio blomfildia* Fabricius, Spec. Ins., 2: 84 (1781).

1. **karwinskii** Geyer. *in* Hübner, Samml. exot. Schmett., 3: pl. [14]; footnote [1833]. TL — "Mexico". Type probably lost [see **Note 11**]. 688.

Subfamily **Marpesiinae** Aurivillius

Kongl. Svenska VetenskAkad. Handl., 31: 123 (1898).

Genus CCXXII: **Marpesia** Hübner

Zutr. z. Samml. exot. Schmett., 1: 32 (1818). Type-species by designation of Scudder, Proc. American Acad. Arts Sci., 10: 212 (1875) *Marpesia eleuchea* Hübner, Zutr. z. Samml. exot. Schmett., 1: 32 (1818).

= *Athena* Hübner, Verz. bekannt. Schmett., (3): 36 [1819]. Type-species by monotypy *Papilio thetys* Fabricius, Gen. Ins.: 264 (1777) (= *Papilio petreus* Cramer, Uitl. Kapellen, 1: 138 [1776]).

= *Euglyphus* Billberg, Enum. Ins. Mus. Billberg.: 80 (1820). Type-species by monotypy *Papilio chiron* Fabricius, Syst. Ent.: 452 (1775).

= *Marius* Swainson, Zool. Illustr., (2)1: pl. 45 [1830]. Type-species by original designation *Papilio marius* Cramer, Uitl. Kapellen, 3: 14 [1779] (= *Papilio chiron* Fabricius, Syst. Ent.: 452: 1775).

= *Petreus* Swainson, Zool. Illustr., (2)3: pl. 110 [1833]. Type-species by monotypy *Papilio thetys* Fabricius, Gen. Ins.: 264 (1777) (= *Papilio petreus* Cramer, Uitl. Kapellen, 1: 138 [1776]).

= *Megalura* Blanchard, Hist. Nat. Ins., 3: 446 (1840). Type-species by original designation *Nymphalis coresia* Godart, Enc. Meth., 9: 359 [1824].

= *Timetes* Doubleday, List. Spec. Lepid. Ins. British Mus., 1: 87 (1844). Type-species by designation of Hemming, Entomologist, 66: 223 (1933) *Nymphalis coresia* Godart, Enc. Meth., 9: 359 [1824].

= *Tymetes* Boisduval, *in* Cuvier's Regne Anim., Disciple's ed., 6 (sect. 4): explic. pl. 139 [1846]. Type-species by monotypy *Tymetes merops* Boisduval, *in* Cuvier's Regne Anim., Disciple's ed., 6 (Sect. 4): explic. pl. 139 [1846].

= ‡*Timetes* Boisduval, Consid. Lepid. Guatemala: 44 (1870). Type-species by designation of Hemming, Proc. R. Ent. Soc. London, (B)8: 135 (1939) *Papilio marius* Cramer, Uitl. Kapellen, 3: 14 [1779] (= *Papilio chiron* Fabricius, Syst. Ent.: 452; 1775). Preoccupied by *Timetes* Doubleday, List Spec. Lepid. Ins. British Mus., 1: 87 (1844).

= *Eumargarita* Grote, Canadian Ent., 30: 201, 202 (1898). Type-species, as replacement name, *Nymphalis coresia* Godart, Enc. Meth., 9: 359 [1824].

1. **coresia** (Godart) *NYMPHALIS.* Enc. Meth., 9: 359 (1824). TL — "Brasil". HT may be in MNHN. **689.**

= *zerynthia* Hübner. Samml. exot. Schmett., 2: pl. [51] [1823]. TL not stated. Type probably lost [see **Note 9**].

= *sylla* (Perty) *PAPILIO.* Delect. Anim. Articul . . . Brasiliam, (3): 151 (1833). TL presumably Brasil. Loc. of type not known.

2. **chiron** (Fabricius) *PAPILIO.* Syst. Ent.: 452 (1775). TL — "India". Type lost — Drury specimen [see **Notes 99, 596** and **597**]. **690.**

= *marius* (Cramer) *PAPILIO.* Uitl. Kapellen, 3: 14 [1779]. TL — "Surinam". Type lost or in Leiden [see **Note 7**].

3. **petreus** (Cramer) *PAPILIO.* Uitl. Kepellen, 1: 138 [1776]. TL — "Surinam". Type probably lost [see **Note 7**]. **691.**

= ‡ *peleus* (Sulzer) *PAPILIO.* Gesch. Ins.: pl. 13, fig. 4 (1776). TL — "America". Loc. of type not known. Preoccupied by *Papilio peleus* Linnaeus, Mus. Ludoviciae Ulricae: 327 (1764).

= ‡ *thetys* (Fabricius) *PAPILIO.* Gen. Ins.: 264 (1777). TL — "America meridionali". ST (HT?) in Kiel. Preoccupied by *Papilio thetys* Drury, Ill. Nat. Hist., 2: index et 16 [1773] [see **Note 598**].

4. **eleuchea** Hübner. Zutr. z. Samml. exot. Schmett., 1: 32 [1818]. TL — Havana, Cuba. Type probably lost [see **Notes 9** and **599**]. **692.**

Family **APATURIDAE** Boisduval

Gen. Index Meth. Europaeorum Lepid.: 24 (1840).

Subfamily **Charaxinae** Guenée

in Vison, Voy. Madagascar, Ann.: 28 (1865).

Genus CCXXIII: **Anaea** Hübner

Verz. bekannt. Schmett., (3): 48 [1819]. Type-species by designation of Scudder, Proc. American Acad. Arts Sci., 10: 111 (1875) *Papilio troglodyta* Fabricius, Syst. Ent.: 502 (1775) [see **Notes 600** and **601**].

= *Pyrrhanaea* Röber, *in* Schatz, *in* Staudinger and Schatz, Exot. Schmett., 1(2)(4): 170 [1888]. Type-species by monotypy *Papilio troglodyta* Fabricius, Syst. Ent.: 502 (1775).

1. **aidea** (Guérin-Ménéville) *NYMPHALIS.* Icon. Regne Anim. Cuvier, 7: 478 [1844]. TL — Campeche Bay, Mexico. HT probably in MNHN [see **Note 602**]. **693.**

= *morrisonii* (W. H. Edwards) *PAPHIA.* Canadian Ent., 15: 35-36 (1883). TL — Mt. Graham, Cochise Co., Arizona, restricted by F. M. Brown, Trans. American Ent. Soc., 93: 390 (1967). LT in CM, designated by F. M. Brown (F. Johnson and W. P. Comstock, *in litt.*), Trans. American Ent. Soc., 93: 391 (1967) [see **Note 603**].

= *appiciata* Röber. *in* Seitz, Grossschmett. Erde, 5: 582 (1916). TL — "Mexico". Loc. of type(s) not known.

2. **floridalis** F. Johnson and W. P. Comstock. J. New York Ent. Soc., 49: 307 (1941). TL — Florida City, Dade Co., Florida. HT in AMNH [see **Note 604**]. **694.**

= summer f. "floraesta" F. Johnson and W. P. Comstock. J. New York Ent. Soc., 49: 309 (1941). TL — Brickell Hammock, Miami, Florida. HT in AMNH.

3. **andria** Scudder. Bull. Buffalo Soc. Nat. Sci., 2: 248 (1875). TL not stated. Type is figure "*Paphia*" in W. H. Edwards. Butts. N. America, 1 (1871) [see **Note 605**]. **695.**

= *ops* (H. Druce) *PAPHIA.* Proc. Zool. Soc. London, [1877]: 633 (1877). TL — "Texas". HT in BM.

= *glycerinus* Stichel. Lepid. Cat., 93: 749 (1939). TL not stated. Loc. of type not known (ZMHU?).

= f. "andriaesta" F. Johnson and W. P. Comstock. J. New York Ent. Soc., 49: 303 (1941). TL — Alexandria, Louisiana. HT in AMNH.

Genus CCXXIV: **Memphis** Hübner

Verz. bekannt. Schmett., (3): 48 [1819]. Type-species by designation of Scudder, Proc. American Acad. Arts Sci., 10: 215 (1875) *Papilio odilia* Stoll, *in* Cramer, Uitl. Kapellen, 4: 79 [1780] =*Papilio polycarmes* Fabricius, Syst. Ent.: 484; (1775) [see **Note 606**].

= ‡*Corycia* Hübner, Samml. exot. Schmett., 2: pl. [35] [1825]. Type-species by monotypy *Corycia appias* Hübner, Samml. exot. Schmett., 2: pl. [35] [1823]. Preoccupied by *Corycia* Hübner, Verz. bekannt. Schmett., (17): 265 [1823].

= *Cymatogramma* Doubleday and Hewitson, Gen. diurn. Lepid., 2: pl. 49, fig. 4 [1849]. Type-species by monotypy *Cymatogramma echemus* Doubleday and Hewitson, Gen. diurn. Lepid., 2: pl. 49, fig. 4 1849.

= *Euschatzia* Grote, Proc. American Phil. Soc., 37: 39 (1898). Type-species by original designation *Papilio morvus* Fabricius, Syst. Ent.: 484 (1775).

1. **glycerium** (Doubleday) *PAPHIA*. Gen. diurn. Lepid., 2: 319 [1850]. TL — "Mexico". HT in BM [see **Note 607**]. **696.**

2. **pithyusa** (R. Felder) *NYMPHALIS*. Verh. zool.-bot. Ges. Wien, 19: 473 (1869). TL — Potrero, Veracruz, Mexico. HT in BM. **697.**

= f. "duguana" Bargmann. Ent. Anz. Wien, 9: 34 (1929). TL not stated, but presumably Rio Dagua, Colombia. HT was in Bargmann colln. (Vienna?).

Subfamily **Apaturinae** Boisduval

Gen. Index Meth. Europaeorum Lepid.: 24 (1840).

Genus CCXXV: **Asterocampa** Röber

in Seitz, Grossschmett. Erde, 5: 549 (1915). Type-species by designation of M. Bates, Ent. News, 37: 154 (1926) *Apatura celtis* Boisduval and Leconte, Hist. Lepid. Amerique sept.: 210 [1834] [see **Note 608**].

= *Celtiphaga* Barnes and Lindsey, Ann. Ent. Soc. America, 15: 92 (1922). Type-species by orignal designation *Apatura celtis* Boisduval and Leconte, Hist. Lepid. Amerique sept.: 210 [1834].

1. **celtis** (Boisduval and Leconte) *APATURA*. Hist. Lepid. Amerique sept.: 210 [1834]. TL — "Georgia", probably around Savannah. Type may never have existed, name based on Abbot drawing. **698.**

= f. "alb" (Strecker) *APATURA*. Butts. Moths N. America: 145 (1878). TL not stated. Type represented by Edwards' figure, Butts. N. America, 2: pl. Apatura I, figs. 4, 5 (1875).

= ab. "inornata" (Wolcott) *CHLORIPPE*. Ent. News, 27: 98-99 (1916). TL — Ashland, Nebraska. HT may be in Univ. Nebraska colln.

2. **antonia** (W. H. Edwards) *APATURA*. Field and Forest, 3: 103-105 [1878]. TL — vic. Norse, Bosque Co., Texas, restricted by F. M. Brown, Trans. American Ent. Soc., 93: 377-378 (1967). LT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 93: 379 (1967). **699.**

3. **montis** (W. H. Edwards) *APATURA*. Papilio, 3: 7 (1883). TL — Ft. Grant, Graham Mtns., Cochise Co., Arizona. LT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 93: 382 (1967). **700.**

4. **subpallida** (Barnes and McDunnough) *CHLORIPPE*. Contr. Nat. Hist. Lepid. N. America, 2: 99 (1913). TL — Babaquivera [*sic*] Mtns., Arizona. ST's in USNM (♀ labelled as HT). **701.**

5. **leila** (W. H. Edwards) *APATURA*. Trans. American Ent. Soc., 5: 103-104 (1874). TL — "Camp Lowell and Sonoto Valley, Arizona". LT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 93: 385 (1967).

a. **l. leila** (W. H. Edwards) *APATURA*. Trans. American Ent. Soc., 5: 103-104 (1874). TL — "Camp Lowell and Sonoto Valley, Arizona". LT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 93: 385 (1967). **702a.**

b. **l. cocles** (Lintner) *APATURA*. Papilio, 4: 141 (1884). TL — Rio Grande, [Texas]. ST in New York State Mus. **702b.**

6. **alicia** (W. H. Edwards) *APATURA*. Butts. N. America, 1: [135-136] (1868). TL — vic. New Orleans, Louisiana. Type lost, the figures in W. H. Edwards, Butts. N. America, 1: pl. Apatura 1 (1868) may be considered to represent **703.**

types.

7. **clyton** (Boisduval and Leconte) *APATURA*. Hist. Lepid. Amerique sept.: 208-209 [1833]. TL — "United States", probably Georgia. Type may never have existed, name based on Abbot drawing [see **Note 609**]. **704.**
   = *ocellata* (W. H. Edwards) *APATURA*. Butts. N. America, 2: [245-246] (1876). TL — Coalburgh, West Virginia. LT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 93: 387 (1967).
      = f. "proserpina" (Scudder) *APATURA*. Trans. Chicago Acad. Sci., 1: 332 (1870). TL — "Iowa". Type may be in MCZ.
         = ab. "nig" (Strecker) *APATURA*. Butts. Moths N. America: 146 (1878). TL — Berks Co., Pennsylvania. HT in FMNH.
8. **flora** (W. H. Edwards) *APATURA*. Butts. N. America, 2: [247-248] (1876). TL — Palatka, Florida. LT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 93: 389 (1967). **705.**
9. **texana** (Skinner) *CHLORIPPE*. Trans. American Ent. Soc., 37: 214 (1911). TL — Round Mt., Texas. HT in CM. **706.**
10. **louisa** D. Stallings and Turner. Ent. News, 58: 38 (1947). TL — Pharr, Texas. HT in Stallings and Turner colln. (YPM?). **707.**

Genus CCXXVI: **Doxocopa** Hübner

Verz. bekannt. Schmett., (4): 49 [1819]. Type-species by designation of Scudder, 4th Ann. Rept. Peabody Acad. Sci., [1871]: 30 (1872) *Papilio agathina* Cramer, Uitl. Kapellen, 2: 109 [1777].

= *Catargyria* Hübner, Samml. exot. Schmett., 2: pl. [64] [1823]. Type-species by monotypy *Catargyria laura* Hübner, Samml. exot. Schmett., 2: pl. [64] [1823] *(= Papilio laure* Drury, Ill. Nat. Hist., 2: index et 31 [1773]).

= *Chlorippe* Doubleday (Boisduval MS.), List. Spec. Lepid. Ins. British Mus., 1: 108 (1844). Type-species by designation of Scudder, Bull. Buffalo Soc. Nat. Sci., 2: 248 (1875) *Nymphalis laurentia* Godart, Enc. Meth., 9: 376 [1824] *(= Papilio agathina* Cramer, Uitl. Kapellen, 2: 109 [1777]).

=‡*Chlorippe* Boisduval, Consid. Lepid. Guatemala: 47 (1870). Type-species by designation of Hemming, Proc. R. Ent. Soc. London, (B)8: 134 (1939) *Nymphalis laurentia* Godart, Enc. Meth., 9: 376 [1824] *(= Papilio agathina* Cramer, Uitl. Kapellen, 2: 109 [1777]). Preoccupied by *Chlorippe* Doubleday (Boisduval MS.), List. Spec. Lepid. Ins. British Mus., 1: 108 (1844).

1. **pavon** (Latreille) *NYMPHALIS. in* Humboldt and Bonpland, Rec. Obs. Zool. Ins., 1: 197 [1809]. TL — "Loxa" (Loja), Ecuador. Type may be in MNHN [see **Note 610**]. **708.**
2. **laure** (Drury) *PAPILIO*. Ill. Nat. Hist., 2: index et 31 [1773]. TL — "Bay of Honduras". Type probably lost [see **Notes 99** and **611**]. **709.**

Family **SATYRIDAE** Boisduval

in Roret's Suites á Buffon, Icon. hist. Lépid., 1: 166 (1833) [see **Notes 1** and **612**].

= Hipparchiadae W. Kirby, *in* J. Richardson, Fauna Bor.-Americana, 4: 297 (1837).

= Agapetidae Grote, Mitt. Roemer Mus. Hildesheim, (8): 20-21 (1897) [see **Note 613**].

Subfamily **Elymniinae** Herrich-Schäffer

CorrespBl. zool.-min. Ver. Regensburg, 18: 124 (1864, as "Elymniina").
=‡Eurytelidae Westwood, *in* Doubleday, Westwood and Hewitson, Gen. diurn. Lepid., 2: 403 (1851, *in part*) [see **Note 614**].
= Enodiinae A. H. Clark, Proc. Ent. Soc. Washington, 49: 149 (1947).
= Lethinae A. H. Clark, Proc. Biol. Soc. Washington, 61: 77 (1948).

Tribe **Parargini** Tutt

British Butts.: 87, 387 (1896) [see **Note 615**].
= Enodiinae A. H. Clark, Proc. Ent. Soc. Washington, 49: 149 (1947).
= Lethinae A. H. Clark, Proc. Biol. Soc. Washington, 61: 77 (1948).

Genus CCXXVII: **Enodia** Hübner

Verz. bekannt. Schmett., (4): 61 [1819]. Type-species by designation of Scudder, 4th Ann. Rept. Peabody Acad. Sci., [1871]: 26 (1872) *Oreas andromacha* Hübner, Samml. exot. Schmett., [1]: pl. [89] [1809] *(=Papilio portlandia* Fabricius, Spec. Ins., 2: 82 (1781) [see **Note 616**].

1. **portlandia** (Fabricius) *PAPILIO.* Spec. Ins., 2: 82 (1781). TL — "America meridionali", probably Georgia. NT in Univ. Mus., Glasgow, designated by J. R. Heitzman and dos Passos, Trans. American Ent. Soc., 100: 57 (1974) [see **Note 617**].
   a. **p. portlandia** (Fabricius) *PAPILIO.* Spec. Ins., 2: 82 (1781). TL — "America meriodionali", probably Georgia. NT in Univ. Mus., Glasgow, designated by J. R. Heitzman and dos Passos, Trans. American Ent. Soc., 100: 57 (1974) [see **Note 617**]. **710a.**
      = *andromacha* (Hübner) *OREAS.* Samml. exot. Schmett., [1]: pl. [89] [1809]. TL not stated, but perhaps Georgia. NT in Univ. Mus., Glasgow, designated by J. R. Heitzman and dos Passos, Trans. American Ent. Soc., 100: 58 (1974).
      = *androcardia* Hübner. Index exot. Lepid.: [1] (1821). Proposed as replacement name for *andromacha* Hübner, wrongly thought preoccupied. NT in Univ. Mus., Glasgow, designated by J. R. Heitzman and dos Passos, Trans. American Ent. Soc., 100: 59 (1974).
   b. **p. floralae** (J. R. Heitzman and dos Passos) *LETHE.* Trans. American Ent. Soc., 100: 67-71 (1974). TL — Rock Springs, Orange Co., Florida. HT in AMNH. **710b.**
   c. **p. missarkae** (J. R. Heitzman and dos Passos) *LETHE.* Trans. American Ent. Soc., 100: 71-76 (1974). TL — 5 mi. S Fayetteville, Washington Co., Arkansas. HT in AMNH. **710c.**
2. **anthedon** A. H. Clark. Proc. U. S. Natl. Mus., 85: 255 (1936). TL — Lava, Sullivan Co., New York. HT in USNM. **711.**
   = *borealis* A. H. Clark. Proc. U. S. Natl. Mus., 85: 255 (1936). TL — Hymers, Ontario. HT in USNM.
3. **creola** (Skinner) *DEBIS.* Ent. News, 8: 236 (1897). TL — Opelousas, Louisiana. HT in CM [see **Note 618**]. **712.**

Genus CCXXVIII: **Satyrodes** Scudder

Bull. Buffalo Soc. Nat. Sci., 2: 235, 242 (1875). Type-species by original designation *Papilio eurydice* Johansson, Amoen. Acad., 6: 406 (1763) [see **Note 616**].
=‡*Argus* Scopoli. Intro. Hist. nat.: 432 (1777). Type-species by designation

of Scudder, 4th Ann. Rept. Peabody Acad. Sci., [1871]: 27 (1872) *Papilio eurydice* Johansson, Amoen. Acad., 6: 406 (1763). Preoccupied by *Argus* Bohdasch, De quibusdam anim. marinis. . .Liber: 56 (1761) and *Argus* Scopoli, Ent. carn.: 176 (1763).

1. **eurydice** (Johansson) *PAPILIO.* Amoen. Acad., 6: 406 (1763). TL — Morris Arboretum, Philadelphia Co., Pennsylvania (neotype), designated by Cardé, Shapiro and Clench, Psyche, 77: 74 (1970). NT in USNM, designated by Cardé, Shapiro and Clench, Psyche, 77: 74 (1970) [see **Note 619**].
   a. e. **eurydice** (Johansson) *PAPILIO.* Amoen. Acad., 6: 406 (1763). TL — Morris Arboretum, Philadelphia Co., Pennsylvania (neotype), designated by Cardé, Shapiro and Clench, Psyche, 77: 74 (1970). NT in USNM, designated by Cardé, Shapiro and Clench, Psyche, 77: 74 (1970) [see **Note 619**]. **713a.**
      = *canthus* (Linnaeus) *PAPILIO.* Syst. Nat., ed. 12: 768 (1767). TL — "America septentrionalis". Loc. of type not known (Uppsala?) [see **Note 620**].
      = *transmontana* (Gosse) *HIPPARCHIA.* Canadian Nat., [1840]: 247 (1840). TL — Compton, Ontario, restricted by Field, J. Ent. Zool. (Pomona Coll.), 28: 22 (1936). Type apparently lost [see **Note 621**].
      = *boisduvallii* (Harris) *HIPPARCHIA.* Rept. Ins. Inj. Veg. (Flint's ed.): 305 (1862). TL — "northwestern Massachusetts". Type probably lost [see **Note 622**].
         = f. "rawsoni" Field. J. Ent. Zool. (Pomona coll.), 28: 22 (1936). TL — Bloomfield, Michigan. HT in USNM.
            = ab. "boweri" F. H. Chermock. Bull. Brooklyn Ent. Soc., 22: 119 (1927). TL — Port Hope, Ontario. HT in AME.
   b. e. **fumosa** Leussler. Ent. News, 27: 99-100 (1916). TL — Sarpy Co., S of Omaha, Nebraska. HT in USNM? More likely HT in Ohio State Univ. colln. **713b.**
2. **appalachia** (R. L. Chermock) *LETHE.* Ent. News, 58: 33 (1947). TL — Conestee Falls, North Carolina. HT may be in R. Chermock colln.
   a. **a. appalachia** (R. L. Chermock) *LETHE.* Ent. News, 58: 33 (1947). TL — Conestee Falls, North Carolina. HT may be in R. Chermock colln. **714a.**
   b. **a. leeuwi** (Gatrelle and Arbogast) *LETHE.* J. Lepid. Soc., 28: 359-361 (1974). TL — Wakelee, Cass Co., Michigan. HT in AME. **714b.**

Subfamily **Satyrinae** Boisduval

in Roret's Suites á Buffon, Icon. hist. Lépid., 1: 166 (1833) [see **Notes 1** and **000**].
= Hipparchiadae W. Kirby, *in* J. Richardson, Fauna Bor.-Americana, 4: 297 (1837).
= Agapetidae Grote, Mitt. Roemer Mus. Hildesheim, (8): 20-21 (1897) [see **Note 613**].

Tribe **Euptychiini** L. Miller

Mem. American Ent. Soc., 24: 79-95 (1968).

Genus CCXXIX: **Cyllopsis** R. Felder

Verh. zool.-bot. Ges. Wien, 19: 474 (1869). Type-species by monotypy *Cyllopsis hedemanni* R. Felder, Verh. zool.-bot. Ges. Wien, 19: 474 (1869) [see **Note 623**].
*1. **pyracmon** (Butler) *EUPTYCHIA.* Proc. Zool. Soc. London, [1866]: 499 (1866). TL — "Oajaca" [Oaxaca], Mexico. HT in BM.
   a. **p. nabokovi** L. Miller. Bull. Allyn Mus., (20): 48-50 (1974). TL — Ramsey Canyon, Huachuca Mountains, Cochise Co., Arizona. HT in AME. **715a.**

2. **henshawi** (W. H. Edwards) *EUPTYCHIA*. Trans. American Ent. Soc., 5: 205 (1876). TL — "Arizona and New Mexico", restricted to near Camp Lowell, Pima Co., Arizona by F. M. Brown, Trans. American Ent. Soc., 90: 331 (1964). LT in CM, designated by Nabokov, Psyche, 49: 79 (1942). **716.**

*3. **pertepida** (Dyar) *EUPTYCHIA*. Proc. U. S. Natl. Mus., 42: 39 (1912). TL — Mexico, D. F., Mexico. LT in USNM, designated by L. Miller, Bull. Allyn Mus., (20): 78-81 (1974).

a. **p. dorothea** (Nabokov) *NEONYMPHA*. Psyche, 49: 64 (1942). TL — S rim Grand Canyon, Coconino Co., Arizona. HT in AMNH, not MCZ as stated by L. Miller, Bull. Allyn Mus., (20): 69 (1974). **717a.**

= f. "edwardsi" (Nabokov) *NEONYMPHA*. Psyche, 49: 66 (1942). TL — Gila Co., Arizona. HT in MCZ.

b. **p. maniola** (Nabokov) *NEONYMPHA*. Psyche, 49: 68 (1942). TL — Cochise Co., Arizona. HT in MCZ. **717b.**

c. **p. avicula** (Nabokov) *NEONYMPHA*. Psyche, 49: 67 (1942). TL — Fort Davis, Jeff Davis Co., Texas. HT in AMNH. **717c.**

= *texana* (Wind) *NEONYMPHA*. Pan-Pac. Ent., 22: 27 (1946). TL — Marfa-Alpine, Presidio [?] Brewster [?] Co., Texas. HT in CAS.

4. **gemma** (Hübner) *OREAS*. Erste Zutr. z. Samml. exot. Schmett.: 3 [1808]. TL — "Georgia". Type may be in Vienna.

a. **g. gemma** (Hübner) *OREAS*. Erste Zutr. z. Samml. exot. Schmett.: 3 [1808]. TL — "Georgia". Type may be in Vienna. **718a.**

= ?*cornelius* (Fabricius) *PAPILIO*. Ent. Syst., 3: 220 (1793). TL not stated (Georgia?). Type lost — a Drury specimen.

b. **g. freemani** (D. Stallings and Turner) *NEONYMPHA*. Canadian Ent., 78: 136 (1947) ["1946"]. TL — Pharr, Hidalgo Co., Texas. HT in USNM. **718b.**

= winter f. "inductura" (D. Stallings and Turner) *NEONYMPHA*. Canadian Ent., 78: 136 (1947) ["1946"]. TL — Pharr, Hidalgo Co., Texas. HT in USNM.

Genus CCXXX: **Hermeuptychia** Forster

Veröff. Zool. Staatssamml. München, 8: 87 (1964). Type-species by original designation *Papilio hermes* Fabricius, Syst. Ent.: 487 (1775).

*1. **hermes** (Fabricius) *PAPILIO*. Syst. Ent.: 487 (1775). TL — "Brasilia", here restricted to vic. Rio de Janeiro, the only place Banks went ashore (Banks *Journal*, Nov. and Dec., 1768). HT in BM [see **Note 625**]. **719.**

= ?*canthe* (Hübner) *OREAS*. Samml. exot. Schmett., 1: pl. [87] [1811]. TL not stated. Loc. of type not known [see **Note 624**].

2. **sosybius** (Fabricius) *PAPILIO*. Ent. Syst., 3: 219 (1793). TL not stated (possibly Georgia). Type lost, a Drury specimen. **720.**

Genus CCXXXI: **Neonympha** Hübner

Zutr. z. Samml. exot. Schmett., 1: 8 [1818]. Type-species by designation of Hemming, Proc. R. Ent. Soc. London, (B)6: 150 (1937) *Papilio areolatus* J. E. Smith, *in* Abbot and Smith, Nat. Hist. Rarer Lepid. Ins. Georgia, 1: 25 (1797).

1. **areolatus** (J. E. Smith) *PAPILIO. in* Abbot and Smith, Nat. Hist. Rarer Lepid. Ins. Georgia, 1: 25 (1797). TL — "Georgia", by implication. Type does not exist, name based on Abbot drawing.

a. **a. areolatus** (J. E. Smith) *PAPILIO. in* Abbot and Smith, Nat. Hist. Rarer Lepid. Ins. Georgia, 1: 25 (1797). TL — "Georgia", by implication. Type does not exist, name based on Abbot drawing. **721a.**

= ‡*phocion* (Fabricius) *PAPILIO*. Ent. Syst., 3: 218 (1793). TL not given. HT in BM [see **Note 625**]. Preoccupied by *Papilio phocion* Fabricius, Spec.

Ins., 2: 138 (1781).
= ?*helicta* (Hübner) *OREAS*. Samml. exot. Schmett., 1: pl. [95] [1808]. TL not stated, but probably Georgia (Abbot). Type may be in Vienna or lost [see **Note 9**]. Name may refer to next taxon.
b. **a. septentrionalis** Davis. J. New York Ent. Soc., 32: 105 (1924). TL — Lakehurst, [Ocean Co.], New Jersey. HT in AMNH. **721b.**
2. **mitchellii** French. Canadian Ent., 21: 25 (1889). TL — *ca.* 10 mi. from Indiana line, Cass Co., Michigan. Type apparently lost [see **Note 626**]. **722.**

Genus CCXXXII: **Megisto** Hübner

Verz. bekannt. Schmett., (4): 54 [1819]. Type-species by designation of Butler, Cat. diurn. Lepid. Satyr. British Mus.: 14 (1868) *Papilio eurytus* Fabricius, Syst. Ent.: 487 (1775) (=*Papilio cymela* Cramer, Uitl. Kapellen, 2: 55 [1777]).
1. **cymela** (Cramer) *PAPILIO*. Uitl. Kapellen, 2: 55 [1777]. TL — "Cape of Good Hope" [error]. Type probably lost [see **Note 7**].
a. **c. cymela** (Cramer) *PAPILIO*. Uitl. Kapellen, 2: 55 [1777]. TL — "Cape of Good Hope" [error]. Type probably lost [see **Note 7**]. **723a.**
= ‡*eurytus* (Fabricius) *PAPILIO*. Syst. Ent.: 487 (1775). TL — "Jamaica" [in error, see **Note 627**]. ST's in University Museum, Glasgow. Preoccupied by *Papilio eurytus* Linnaeus, Syst. Nat., ed. 10, 1: 487 (1758).
= *eurytris* (Fabricius) *PAPILIO*. Ent. Syst., 3: 157 (1793). TL — "Jamaica" [in error, see **Note 627**]. ST's in BM [see **Note 628**].
b. **c. viola** (Maynard) *NEONYMPHA*. Butt. N. England, 2nd ed.: 71 (1891). TL — Enterprise, Florida. HT in MCZ. **723b.**
2. **rubricata** (W. H. Edwards) *EUPTYCHIA*. Trans. American Ent. Soc., 3: 212 (1871). TL — nr. Waco, McLennan Co., Texas. NT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 90: 335 (1964).
a. **r. rubricata** (W. H. Edwards) *EUPTYCHIA*. Trans. American Ent. Soc., 3: 212 (1871). TL — nr. Waco, McLennan Co., Texas. NT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 90: 335 (1964). **724a.**
b. **r. smithorum** (Wind) *EUPTYCHIA*. Pan-Pac. Ent., 22: 26 (1946). TL — "Marfa-Alpine", Presidio [?] - Brewster [?] Co., Texas. HT in CAS. **724b.**
c. **r. cheneyorum** (R. Chermock) *EUPTYCHIA*. Canadian Ent., 80: 172-173 [1949] ("1948"). TL — Madera Canyon, Santa Rita Mtns., Pima Co., Arizona. HT not located. **724c.**

Genus CCXXXIII: **Paramacera** Butler

Ent. Mo. Mag., 4: 194 (1868). Type-species by designation of Scudder, Proc. American Acad. Arts Sci., 10: 240 (1875) *Neonympha xicaque* Reakirt, Proc. Acad. Nat. Sci. Philadelphia, [1866]: 336-337 [1867] [see **Note 629**].
= *Paramecera* Butler, Cat. diurn. Lepid. Satyr. British Mus.: 98 (1868). Type-species by monotypy *Neonympha xicaque* Reakirt, Proc. Acad. Nat. Sci. Philadelphia, [1866]: 336-337 [1867].
1. **allyni** L. Miller. Bull. Allyn Mus., (8): 13-15 (1972). TL — Barfoot Park, Chiricahua Mtns., Cochise Co., Arizona. HT in AME [see **Note 630**]. **725.**

Tribe **Coenonymphini** Tutt

British Butts.: 87, 411-416 (1896) (as "Coenonymphidi") [see **Note 631**].

Genus CCXXXIV: **Coenonympha** Hübner

Verz. bekannt. Schmett., (5): 65 [1819]. Type-species by designation of Butler, Ent. Mo. Mag., 4: 194 (1868) *Papilio geticus* Esper, Die Schmett., Suppl. B, 1: 51 [1793] *(=Papilio oedippus* Fabricius, Mant. Ins., 2: 31; 1787).

= *Chortobius* [Dunning and Pickard], Accent. List British Lepid.: 5 (1858). Type-species by designation of Hemming, Gen. Names Holarctic Butts., 1: 44 (1934) *Papilio pamphilus* Linnaeus, Syst. Nat., ed. 10, 1: 472 (1758) [see **Note 632**].

= *Sicca* Verity, Farfalle diurn. d'Italia, 5: 83 (1953). Type-species by original designation *Papilio dorus* Esper, Die Schmett., 1 (Bd. 2) Forts Tagschmett.: 130 [1782].

1. **haydenii** (W. H. Edwards) *EREBIA. in* Hayden, Prelim. Rept. U. S. Geol. Surv. Montana Adj. Terr. . ., 5: 467 (1872). TL — Yellowstone [Lake, Yellowstone Natl. Park., Wyoming]. HT in CM. **726.**
2. **kodiak** W. H. Edwards. Trans. American Ent. Soc., 2: 375 (1869). TL — "Kodiak". HT in CM [see **Note 633**].
   a. **k. kodiak** W. H. Edwards. Trans. American Ent. Soc., 2: 375 (1869). TL — "Kodiak". HT in CM. **727a.**
   b. **k. yukonensis** Holland. Ent. News, 11: 386-387 (1900). TL — Dawson, Yukon Territory. ST's in CM [see **Note 634**]. **727b.**
   c. **k. mixturata** Alpheraky. Mem. Romanoff, 9: 326 (1897). TL — Kamchatka, Siberia. Loc. of type not known. **727c.**
3. **inornata** W. H. Edwards. Proc. Acad. Nat. Sci. Philadelphia, 13: 163 (1861). TL — "Lake Winnipeg", emended to Saskatchewan R. between Lake Winnipeg and The Pas, Manitoba by F. M. Brown, Trans. American Ent. Soc., 90: 340 (1964). LT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 90: 340 (1964).
   a. **i. mcisaaci** dos Passos. Canadian Ent., 67: 83-84 (1935). TL — Doyles Station, Newfoundland. HT in AMNH [see **Note 635**]. **728a.**
   b. **i. nipisiquit** McDunnough. Canadian Ent., 71: 266 (1939). TL — Bathurst, New Brunswick. HT in CNC. **728b.**
   c. **i. heinemani** F. M. Brown. J. New York Ent. Soc., 66: 67-68 [1959] ("1958"). TL — Grindstone Island, Clayton, Jefferson Co., New York. HT in AMNH. **728c.**
   d. **i. inornata** W. H. Edwards. Proc. Acad. Nat. Sci. Philadelphia, 13: 163 (1861). TL — "Lake Winnipeg", emended to Saskatchewan R. between Lake Winnipeg and The Pas, Manitoba by F. M. Brown, Trans. American Ent. Soc., 90: 340 (1964). LT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 90: 340 (1964). **728d.**

      = *quebecensis* Barnes and Benjamin. Bull. S. California Acad. Sci., 25: 89 (1926). TL — Chelsea, Ottawa Co., Quebec. HT in USNM.

   e. **i. benjamini** McDunnough. Canadian Ent., 60: 272-273 (1928). TL — Waterton Lakes, Alberta. HT in CNC. **728e.**
4. **ochracea** W. H. Edwards. Proc. Acad. Nat. Sci. Philadelphia, 13: 163 (1861). TL — "Lake Winnipeg; California; Kansas", restricted to Turkey Creek, Jefferson Co., Colorado by F. M. Brown, Trans. American Ent. Soc., 90: 348-349 (1964). NT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 90: 349-350 (1964).
   a. **o. mackenziei** Davenport. Canadian Ent., 68: 79 (1936). TL — Nyarling River, Mackenzie Dist., Northwest Territories. HT in CNC. **729a.**
   b. **o. ochracea** W. H. Edwards. Proc. Acad. Nat. Sci. Philadelphia, 13: 163 (1861). TL — "Lake Winnipeg; California; Kansas", restricted to Turkey Creek, Jefferson Co., Colorado by F. M. Brown, Trans. American Ent. Soc., 90: 348-349 (1964). NT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 90: 349-350 (1964). **729b.**

      = f. "phantasma" Burdick. Lepid. News, 10: 81-83 (1956). TL —

Eldora, Boulder Co., Colorado. HT in LACM.
= ab. "albescens" Field. J. Ent. Zool. (Pomona Coll.), 28: 22 (1936). TL — Albany Co., Wyoming. HT in USNM.

c. **o. brenda** W. H. Edwards. Trans. American Ent. Soc., 2: 375-376 (1869). TL — "Los Angeles" [in error, probably somewhere in Great Basin] according to F. M. Brown, Trans. American Ent. Soc., 90: 346-347 (1964). LT in FMNH, designated by F. M. Brown, Trans. American Ent. Soc., 90: 347 (1964). **729c.**

d. **o. subfusca** Barnes and Benjamin. Bull. S. California Acad. Sci., 25: 90 (1926). TL — White Mountains, Arizona. HT in USNM. **729d.**

e. **o. furcae** Barnes and Benjamin. Bull. S. California Acad. Sci., 25: 90 (1926). TL — Grand Canyon, Arizona. HT in USNM. **729e.**

f. **o. mono** Burdick. Canadian Ent., 74: 2-3 (1942). TL — Bridgeport, Mono Co., California. HT in CNC. **729f.**

5. **ampelos** W. H. Edwards. Trans. American Ent. Soc., 3: 213 (1871). TL — "Oregon", restricted to SE Oregon by F. M. Brown, Trans. American Ent. Soc., 90: 342 (1964). LT in CNC, designated by F. M. Brown, Trans. American Ent. Soc., 90: 342 (1964).

a. **a. elko** W. H. Edwards. Canadian Ent., 13: 57 (1881). TL — Elko, Nevada. LT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 90: 345 (1964). **730a.**
= f. "sweadneri" R. and F. Chermock. Proc. Pennsylvania Acad. Sci., 15: 52 (1941). TL — "Montana". HT in CM.

b. **a. columbiana** McDunnough. Canadian Ent., 60: 273-274 (1928). TL — Aspen Grove, British Columbia. HT in CNC. **730b.**

c. **a. eunomia** Dornfeld. J. Lepid. Soc., 21: 3-5 (1967). TL — Wilhoit, Clackamas Co., Oregon. HT in USNM (validation of Field form name). **730c.**
= f. "eunomia" Field. Canadian Ent., 69: 249-250 (1937). TL — Wilhoit, Clackamas Co., Oregon. HT in USNM.

d. **a. ampelos** W. H. Edwards. Trans. American Ent. Soc., 3: 213 (1871). TL — "Oregon", restricted to SE Oregon by F. M. Brown, Trans. American Ent. Soc., 90: 342 (1964). LT in CNC, designated by F. M. Brown, Trans. American Ent. Soc., 90: 342 (1964). **730d.**

e. **a. insulanus** McDunnough. Canadian Ent., 60: 273 (1928). TL — Victoria, [Vancouver I.], British Columbia. HT in CNC. **730e.**

6. **california** Westwood. *in* Doubleday, Westwood and Hewitson, Gen. diurn. Lepid., 2: 398 [1851]. TL — "California", probably vic. San Francisco. HT in BM [see **Note 636**].

a. **c. california** Westwood. *in* Doubleday, Westwood and Hewitson, Gen. diurn. Lepid., 2: 398 [1851]. TL — "California", probably vic. San Francisco. HT in BM [see **Note 636**]. **731a.**
= *galactinus* (Boisduval) *SATYRUS*. Ann. Soc. Ent. France, (2)10: 309-310 (1852). TL — "California". HT apparently in USNM [see **Note 22**].
= *ceres* Butler. Ent. Mo. Mag., 3: 78 (1866). TL — "California". HT in BM.
= f. "pulla" Hy. Edwards. Papilio, 1: 51 (1881). TL — San Mateo Co., California. HT in AMNH.

b. **c. eryngii** Hy. Edwards. Pac. Coast Lepid.: (22): 9 (1877). TL — "northern California". HT in AMNH. **731b.**
= summer f. "siskiyouensis" J. A. Comstock. Bull. S. California Acad. Sci., 24: 62-63 (1925). TL — Mt. Shasta, Siskiyou Co., California. HT in LACM.

Tribe **Maniolini** Grote

Mitt. Roemer Mus. Hildesheim (8): 40 (1897) [see **Note 637**].

Genus CCXXXV: Cercyonis Scudder

Bull. Buffalo Soc. Nat. Sci., 2: 235, 241 (1875). Type-species by original designation *Papilio alope* Fabricius, Ent. Syst., 3: 229 (1793) *(=Papilio pegala* Fabricius, Syst. Ent.: 494; 1775; subspecies) [see **Note 638**].

1. **pegala** (Fabricius) *PAPILIO.* Syst. Ent.: 494 (1775). TL — "America", restricted to vic. Charleston, South Carolina by F. M. Brown, J. Res. Lepid., 4: 135 [1966] ("1965"). LT in University Museum, Glasgow, designated by F. M. Brown, J. Res. Lepid., 4: 134-135 [1966] ("1965").

   a. **p. abbotti** F. M. Brown, Ent. News, 80: 193-195 (1969). TL — Chipley, [Washington Co.], Florida. HT in CM. **732a.**

   b. **p. pegala** (Fabricius) *PAPILIO.* Syst. Ent.: 494 (1775). TL — "America", restricted to vic. Charleston, South Carolina by F. M. Brown, J. Res. Lepid., 4: 135 [1966] ("1965"). LT in University Museum, Glasgow, designated by F. M. Brown, J. Res. Lepid., 4: 134-135 [1966] ("1965"). **732b.**

      = *maritima* (W. H. Edwards) *SATYRUS.* Canadian Ent., 12: 23 (1880). TL — Martha's Vineyard, Massachusetts. LT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 90: 376 (1964).

   c. **p. alope** (Fabricius) *PAPILIO.* Ent. Syst., 3: 229 (1793). TL — "in Indiis", corrected to vic. Screven Co., Georgia by F. M. Brown, J. Res. Lepid., 4: 136-137 [1966] ("1965"). Type lost. **732c.**

      = *ochracea* (F. and R. Chermock) *MINOIS.* Proc. Pennsylvania Acad. Sci., 16: 59 (1942). TL — Washington Park, Providence, Rhode Island. Loc. of type not known (PT's in AME).

      = *carolina* (F. and R. Chermock) *MINOIS.* Proc. Pennsylvania Acad. Sci., 16: 59 (1942). TL — Conestee Falls, North Carolina. Loc. of type not known (PT's in AME).

   d. **p. nephele** (W. Kirby) *HIPPARCHIA. in* J. Richardson, Fauna Bor.-Americana, 4: 297 (1837). TL — "Upper Canada", possibly Little Manitou I., Ontario according to F. M. Brown, J. Res. Lepid., 4: 240-242 [1966] ("1965"). Type probably lost. **732d.**

   e. **p. olympus** (W. H. Edwards) *SATYRUS.* Canadian Ent., 12: 31 (1880). TL — [Chicago, Illinois]. LT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 90: 378 (1964). **732e.**

      = *borealis* F. Chermock. Bull. Brooklyn Ent. Soc., 24: 21 (1929). TL — Trumbull Co., Ohio. HT destroyed, AT and PT's in AME.

   f. **p. texana** (W. H. Edwards) *SATYRUS.* Canadian Ent., 12: 24 (1880). TL — "Texas", restricted to Bastrop, Bastrop Co., Texas by F. M. Brown, Trans. American Ent. Soc.,: 90: 374 (1964). LT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 90: 374 (1964). **732f.**

   g. **p. ino** Hall. J. New York Ent. Soc., 32: 109 (1924). TL — Calgary, Alberta. HT in AMNH. **732g.**

   h. **p. boopis** (Behr) *SATYRUS.* Proc. California Acad. Nat. Sci., 3: 164 (1864). TL — Contra Costa Co., California. Type destroyed in 1906 earthquake and fire. **732h.**

      = *baroni* (W. H. Edwards) *SATYRUS.* Canadian Ent. 12: 91 (1880). TL — [Mendocino Co.,] California. LT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 90: 379 (1964).

      = *incana* (W. H. Edwards) *SATYRUS.* Canadian Ent., 12: 91 (1880). TL — Olympia, Washington. LT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 90: 381 (1964).

   i. **p. ariane** (Boisduval) *SATYRUS.* Ann. Soc. Ent. France, (2)10: 307 (1852). TL — "Californie", restricted to Tuolumne Co., California by F. M. Brown, J. Res. Lepid., 4: 139-141 [1966] ("1965"). LT in USNM, designated by F. M. Brown, J. Res. Lepid., 4: 141 [1966] ("1965"). **732i.**

      = *gabbii* (W. H. Edwards) *SATYRUS.* Trans. American Ent. Soc., 3: 193

(1870). TL — "Oregon", restricted to Lake Co., Oregon by F. M. Brown, Trans. American Ent. Soc., 90: 382-383 (1964). LT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 90: 384 (1964).

j. **p. stephensi** (W. G. Wright) *SATYRUS*. Butt. W. Coast: 184 (1905). TL — "NE California", probably Modoc Co., California. LT in CAS, designated by Tilden, Occ. Pap. California Acad. Sci., (118): 26 (1975). **732j.**

k. **p. wheeleri** (W. H. Edwards) *SATYRUS*. Trans. American Ent. Soc., 4: 343 (1873). TL — "Arizona", restricted to nr. Owens Lake, Inyo Co., California by F. M. Brown, Trans. American Ent. Soc., 90: 387 (1964). LT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 90: 387 (1964). **732k.**

= *hoffmani* (Strecker) *SATYRUS*. Lepid. Rhop.-Het.: 31 (1873). TL — Owens Lake, [Inyo Co.], [California] ("Nevada"). ST's in FMNH [see **Note 639**].

l. **p. damei** Barnes and Benjamin. Bull. S. California Acad. Sci., 25: 90 (1926). TL — Grand Canyon, Arizona, HT in USNM. **732l.**

m. **p. blanca** T. Emmel and Mattoon. J. Lepid. Soc., 26: 141-142 (1972). TL — Dufurrena Ranch, Humboldt Co., Nevada. HT in Florida State Collection of Arthropods, Gainesville. **732m.**

2. **meadii** (W. H. Edwards) *EREBIA*. Trans. American Ent. Soc., 4: 70 (1872). TL — Bailey's Ranch, Jefferson Co., Colorado. LT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 90: 372 (1964).

a. **m. meadii** (W. H. Edwards) *EREBIA*. Trans. American Ent. Soc., 4: 70 (1872). TL — Bailey's Ranch, Jefferson Co., Colorado. LT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 90: 372 (1964). **733a.**

b. **m. alamosa** T. and J. Emmel. J. Lepid. Soc., 23: 161-164 (1969). TL — [8 mi. N Hooper, Saguache Co., Colorado]. HT in LACM. **733b.**

c. **m. melania** (Wind) *MINOIS*. Pan-Pac. Ent., 22: 25-26 (1946). TL — "Marfa-Alpine", Presidio [?] - Brewster [?] Co., Texas. HT in CAS. **733c.**

d. **m. mexicana** R. Chermock. Canadian Ent., 80: 172 (1948). TL — "Chihuahua, Mexico", restricted to upper Rio Piedras Verdes, Chihuahua by Clench, Ent. News, 76: 158 (1965). HT in CM. **733d.**

3. **sthenele** (Boisduval) *SATYRUS*. Ann. Soc. Ent. France, (2)10: 308 (1852). TL — [San Francisco, California]. LT in USNM, designated by F. M. Brown, J. Res. Lepid., 4: 141 [1966] ("1965").

a. **s. masoni** Cross. Proc. Colorado Mus. Nat. Hist., 16(1): 9-10 (1937). TL — Black Ridge Breaks, Mesa Co., Colorado. HT in Denver Mus. Nat. Hist. **734a.**

b. **s. paulus** (W. H. Edwards) *SATYRUS*. Canadian Ent., 11: 50 (1879). TL — "Navada", restricted to Viriginia City, Storey Co., Nevada by F. M. Brown, Trans. American Ent. Soc., 90: 365 (1964). NT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 90: 365 (1964). **734b.**

c. †**s. sthenele** (Boisduval) *SATYRUS*. Ann. Soc. Ent. France, (2)10: 308 (1852). TL — [San Francisco, California]. LT in USNM, designated by F. M. Brown, J. Res. Lepid., 4: 141 [1966] ("1965"). **734c.**

= *behrii* (F. Grinnell) *SATYRUS*. Ent. News, 16: 33 (1905). TL — Mt. Tamalpais, Marin Co., California. Type lost in San Francisco earthquake and fire, 1906.

4. **oetus** (Boisduval) *SATYRUS*. Ann. Soc. Ent. Belgique, 12: 63 (1869). TL — "California". LT in USNM, designated by F. M. Brown, J. Res. Lepid., 4: 142-143 [1966] ("1965").

a. **o. charon** (W. H. Edwards) *SATYRUS*. Trans. American Ent. Soc., 4: 69 (1872). TL — nr. Twin Lakes, [Lake Co.], Colorado. LT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 90: 368 (1964). **735a.**

b. **o. silvestris** (W. H. Edwards) *SATYRUS*. Proc. Acad. Nat. Sci. Philadelphia, 13: 162 (1861). TL — "California". LT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 90: 362 (1964). **735b.**

= *phocus* (W. H. Edwards) *SATYRUS*. Trans. American Ent. Soc., 5: 14-15 (1874). TL — Lake Lahache, British Columbia. LT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 90: 370 (1964).

c. **o. oetus** (Boisduval) *SATYRUS*. Ann. Soc. Ent. Belgique, 12: 63 (1869). TL — "California". LT in USNM, designated by F. M. Brown, J. Res. Lepid., 4: 142-143 [1966] ("1965"). **735c.**

Tribe **Erebiini** Tutt

British Butts.: 87, 402 (1896).

Genus CCXXXVI: **Erebia** Dalman

K. Svenska VetenskAkad. Handl., [1861] (1): 58 (1816). Type-species by original designation *Papilio ligea* Linnaeus, Syst. Nat., ed. 10, 1: 473 (1758).

= *Syngea* Hübner, Verz. bekannt. Schmett., (4): 62 [1819]. Type-species by designation of Hemming, Entomologist, 66: 198 (1933) *Papilio pronoe* Esper, Die Schmett., 1 (Bd 2) Forts. Tagschmett.: 23 [1780].

= *Epigea* Hübner, Verz. bekannt. Schmett., (4): 62 [1819]. Type-species by designation of Hemming, Entomologist, 66: 198 (1933) *Papilio ligea* Linnaeus, Syst. Nat., ed. 10, 1: 473 (1758).

= *Phorcis* Hübner, Verz. bekannt. Schmett., (4): 62 [1819]. Type-species by designation of Hemming, Entomologist, 66: 198 (1933) *Phorcis epistygne* Hübner, Verz. bekannt. Schmett., (4): 62 [1819].

= *Marica* Hübner, Verz. bekannt. Schmett., (4): 63 [1819]. Type-species by designation of Hemming, Entomologist, 66: 198 *Papilio stygne* Ochsenheimer, Schmett. Europa, 1(1): 276 (1807) *(=Papilio meolans* de Prunner, Lepid. Pedemont.: 71; 1798).

= *Gorgo* Hübner, Verz. bekannt. Schmett., (4): 64 [1819]. Type-species by designation of Hemming, Entomologist, 66: 198 (1933) *Papilio ceto* Hübner, Samml. Europäischer Schmett.: pl. *Pap.* 112, figs. 578, 579 [1803-1804] *(=Papilio alberganus* de Prunner, Lepid. Pedemont.: 71; 1798).

= *Triariia* Verity, Le Farfalle diurn. d'Italia, 5: 186 (1953). Type-species by original designation *Papilio triarius* de Prunner, Lepid. Pedemont.: 70 (1798).

= *Truncaefalcia* Verity, Le Farfalle diurn. d'Italia, 5: 188 (1953). Type-species by original designation *Papilio aethiops* Esper, Die Schmett., 1: pl. 25, fig. 30 [1777].

= *Medusia* Verity, Le Farfalle diurn. d'Italia, 5: 179 (1953). Type-species by original designation *Papilio medusa* [Denis and Schiffermüller], Ankundung [*sic.*] eines Syst. Werkes Schmett. Wiener Gegend: 167 (1775).

= *Simplicia* Verity, Le Farfalle diurn. d'Italia, 5: 194 (1953). Type-species by original designation *Papilio epiphron* Knoch, Beitr. Insecktengesch., 3: 131 (1783).

1. **vidleri** Elwes. Trans. Ent. Soc. London, [1898]: 195, 198 (1898). TL — above Seton Lake, nr. Lillooet, British Columbia. HT in BM. **736.**

2. **rossii** (Curtis) *HIPPARCHIA. in* Ross., Narr. 2nd voy. northwest pass., Append.: 67 (1835). TL — Boothia Peninsula, Northwest Territories. Type probably lost (not at BM).

a. **r. ornata** Leussler. Bull. Brooklyn Ent. Soc., 30: 50 (1935). TL — Churchill, Manitoba. HT may be in AMNH or in Ohio State Univ. colln. **737a.**

b. **r. rossii** (Curtis) *HIPPARCHIA. in* Ross, Narr. 2nd voy. northwest pass., Append.: 67 (1835). TL — Boothia Peninsula, Northwest Territories. Type probably lost (not at BM). **737b.**

c. **r. gabrieli** dos Passos. American Mus. Novitates, (1389): 12-16 (1949). TL — Mt. McKinley Natl. Park, Alaska. HT in AMNH. **737c.**

d. **r. kuskoquima** Holland. Butt. Book (rev. ed.): 203 (1931). TL — Kuskoquim R., Alaska. ST's in CM. **737d.**

*3. **disa** (Thunberg) *PAPILIO.* Diss. Ins. Svecica, 2: 37 (1791). TL — Lappland. Loc. of type not known [see **Note 75**].

a. **d. mancinus** Doubleday and Hewitson. Gen. diurn. Lepid., 2: pl. 63, fig. 2 [1851]. TL not stated, but presumably vic. Banff, Alberta. HT in BM. **738a.**

b. **d. steckeri** Holland. Trans. American Ent. Soc., 56: 153 (1930). TL — Kuskokwim R., Alaska. ST's in CM. **738b.**

c. **d. subarctica** McDunnough. Canadian Ent., 69: 16 (1937). TL — Mackenzie Delta, Northwest Territories. HT in CNC. **738c.**

4. **magdalena** Strecker. Bull. Brooklyn Ent. Soc., 3: 25 (1880). TL — "Colorado". ST's in FMNH [see **Note 642**].

a. **m. magdalena** Strecker. Bull. Brooklyn Ent. Soc., 3: 25 (1880). TL — "Colorado". ST's in FMNH [see **Note 640**]. **739a.**

b. **m. mackinleyensis** Gunder. Canadian Ent., 64: 278 (1932). TL — Mt. Mckinley, Alaska. HT in AMNH. **739b.**

5. **fasciata** Butler. Cat. Satyr. British Mus.: 92 (1868). TL — "Arctic America". ST's in BM.

a. **f. fasciata** Butler. Cat. Satyr. British Mus.: 92 (1868). TL — "Arctic America". ST's in BM. **740a.**

= f. "suffusa" Warren. Monogr. genus Erebia: 180 (1936). TL — Bernard Harbour, Northwest Territories. HT in CNC.

b. **f. avinoffi** Holland. Trans. American Ent. Soc., 56: 151 (1930). TL — Kotzebue Sound [Alaska and Siberia]. HT in CM. **740b.**

*c. **f. semo** Grum-Grshmaïlo. Ann. Mus. Petersburg, 4: 460 (1899). TL — between Olenek and Chatanga Rivers, E Taimyr Pen., E. Siberia. Loc. of type not known (Leningrad?) [see **Note 641**]. **740c.**

6. **discoidalis** (W. Kirby) *HIPPARCHIA. in* Richardson, Fauna Bor.-Americana, 4: 298 (1837). TL — Cumberland House, Lat. 57° N., Manitoba. Type may be lost or in Dublin (not in BM).

a. **d. discoidalis** (W. Kirby) *HIPPARCHIA. in* Richardson, Fauna Bor.-Americana, 4: 298 (1837). TL — Cumberland House, Lat. 57° N., Manitoba. Type may be lost or in Dublin (not in BM). **741a.**

b. **d. mcdunnoughi** dos Passos. American Mus. Novitates, (1053): 1-2 (1940). TL — Whitehorse, "Alaska" [Yukon]. HT in AMNH [see **Note 642**]. **741b.**

*7. **theano** (Tauscher) *PAPILIO.* Mem. Soc. Nat. Moscou, 1: 207 (1809). TL — Altai Mountains, Siberia. Type may be in Moscow.

a. **t. sofia** Strecker. Bull. Brooklyn Ent. Soc., 3: 35 (1881). TL — Fort Churchill, Manitoba. HT in FMNH. **742a.**

= *canadensis* Warren. Ent. Rec., (n. s.)43: 172 (1931). TL — Fort Churchill, Manitoba. HT in FMNH. Proposed to replace *sofia*, wrongly thought preoccupied by *Papilio sophia* Acerbi, Trav. Sweden, Finland, Lappland to N. Cape, 2: 254 (1802).

= f. "churchillensis" Warren. Monogr. genus Erebia: 387-388 (1936). TL — Fort Churchill, Manitoba. HT in BM.

b. **t. alaskensis** Holland. Ent. News, 11: 387 (1900). TL — Eagle City and American Creek, Alaska. ST's in CM. **742b.**

c. **t. ethela** W. H. Edwards. Canadian Ent., 23: 31 (1891). TL — Trout Creek, probably vic. Yellowstone Lake, Yellowstone. LT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 90: 402-403 (1964). **742c.**

d. **t. demmia** Warren. Monogr. genus Erebia: 235 (1936). TL — Chicago Basin, San Juan Mtns., SW Colorado. HT in AMNH. **742d.**

8. **youngi** Holland. Ent. News, 11: 388 (1900). TL — Mtns. between Fortymile

and Mission Creeks, NE Alaska. ST's in CM.

a. **y. herscheli** Leussler. Bull. Brooklyn Ent. Soc., 30: 51 (1935). TL — Herschel I., Beaufort Sea, Dist. of Mackenzie. HT in AMNH. **743a.**

b. **y. youngi** Holland. Ent. News, 11: 388 (1900). TL — Mtns. between Fortymile and Mission Creeks, NE Alaska. ST's in CM. **743b.**

c. **y. rileyi** dos Passos. American Mus. Novitates, (1348): 3-4 (1947). TL — McKinley Park, Alaska. HT in AMNH. **743c.**

9. **epipsodea** Butler. Cat. diurn. Lepid. Satyr. British Mus.: 80 (1868). TL — "Rocky Mtns.", probably vic. Banff, Alberta. HT in BM.

a. **e. rhodia** W. H. Edwards. Trans. American Ent. Soc., 3: 273 (1871). TL — [Fairplay, Park Co.], Colorado. LT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 90: 406 (1964). **744a.**

= ab. "brucei" Elwes. Trans. Ent. Soc. London, [1889]: 326 (1889). TL — Summit Co., Colorado. HT in BM.

b. **e. freemani** Ehrlich. J. Kansas Ent. Soc., 27: 80 (1954). TL — Lloydminster, Saskatchewan. HT in AMNH [see **Note 643**]. **744b.**

c. **e. epipsodea** Butler. Cat. diurn. Lepid. Satyr. British Mus.: 80 (1868). TL — "Rocky Mtns.", probably vic. Banff, Alberta. HT in BM. **744c.**

= ab. "sineocellata" Skinner. Canadian Ent., 21: 239 (1889). TL — nr. Fort Qu'appelle, [Saskatchewan]. HT in CM.

d. **e. hopfingeri** Ehrlich. J. Kansas Ent. Soc., 27: 80 (1954). TL — Black Canyon, S Methow, Okanogan Co., Washington. HT in AMNH. **744d.**

e. **e. remingtoni** Ehrlich. Ent. News, 63: 225-229 (1952). TL — Dawson, Yukon Territory. HT in CM. **744e.**

10. **callias** W. H. Edwards. Trans. American Ent. Soc., 3: 274 (1871). TL — [Mosquito Pass, Park Co.], Colorado. LT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 90: 408 (1964) [see **Note 644**]. **745.**

11. **dabanensis** Erschoff. Horae Soc. Ent. Rossiae, 8: 315 (1871). TL — Chamar-Daban Mtns., nr. Irkutsk, Siberia. HT in Leningrad Mus. **746.**

Tribe **Pronophilini** A. H. Clark

Proc. Ent. Soc. Washington, 49: 149 (1947).

Genus CCXXXVII: **Gyrocheilus** Butler

Ann. Mag. Nat. Hist., (3)20: 267 (1867). Type-species by original designation *Pronophila patrobas* Hewitson, Trans. Ent. Soc. London, (3)1: 16 (1862) [see **Note 645**].

*1. **patrobas** (Hewitson) *PRONOPHILA*. Trans. Ent. Soc. London, (3)1: 16 (1862). TL — "Mexico". ST's in BM.

a. **p. tritonia** (W. H. Edwards) *GEIROCHILUS [sic.]*. Trans. American Ent. Soc., 5: 18 (1874). TL — White Mtns., Arizona. LT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 90: 410 (1964). **747a.**

Tribe **Satyrini** Boisduval

in Roret's Suites á Buffon, Icon. hist. Lépid., 1: 166 (1833) (as "Satyrides") [see **Notes 1** and **613**].

= Hipparchiadae W. Kirby, *in* J. Richardson, Fauna Bor.-Americana, 4: 297 (1837).

= Oeneini Wheeler, Butts. Switzerland: 121 (1903).

Genus CCXXXVIII: **Neominois** Scudder

Bull. Buffalo Soc. Nat. Sci., 2: 235, 241 (1875). Type-species by original designation *Satyrus ridingsii* W. H. Edwards, Proc. Ent. Soc. Philadelphia, 4: 201-202 (1865) [see **Note 646**].

1. **ridingsii** (W. H. Edwards) *SATYRUS*. Proc. Ent. Soc. Philadelphia, 4: 201-202 (1865). TL — "Burlington" (=Longmont), Boulder Co., Colorado. NT in FMNH, designated by F. M. Brown, Trans. American Ent. Soc., 90: 357 (1964).
   a. **r. ridingsii** (W. H. Edwards) *SATYRUS*. Proc. Ent. Soc. Philadelphia, 4: 201-202 (1865). TL — "Burlington" (=Longmont), Boulder Co., Colorado. NT in FMNH, designated by F. M. Brown, Trans. American Ent. Soc., 90: 357 (1964). **748a.**
   b. **r. stretchii** (W. H. Edwards) *CHIONOBAS*. Trans. American Ent. Soc., 3: 192-193 (1870). TL — "Nevada", restricted to Mt. Jefferson, Nye Co., Nevada by F. M. Brown, Trans. American Ent. Soc., 90: 357-359 (1964). NT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 90: 358-359 (1964). **748b.**
   c. **r. dionysus** Scudder. *in* Hayden, Bull. U. S. Geol. Geogr. Surv., 4: 254 (1878). TL — 60 mi. E St. George, Mt. Trumbull, Washington [?] - Kane [?] Co., Utah. Type should be in MCZ [see **Note 647**]. **748c.**
      = *ashtaroth* (Strecker) *SATYRUS*. Lepid. Rhop. Het.: 129 [1878] ("1877"). TL — "Arizona". HT in FMNH.

Genus CCXXXIX: **Oeneis** Hübner

Verz. bekannt. Schmett., (4): 58 [1819]. Type-species by designation of Butler, Ent. Mo. Mag., 4: 196 (1868) *Papilio norna* Thunberg, Ins. Suecica, (2): 36 (1791).

= *Chionobas* Boisduval, Icon. hist. Lepid. Europe, 1 (15/16): 182 [1833]. Type-species by designation of Blanchard, Hist. nat. Ins., 3: 457 (1840) *Papilio aello* Hübner, Samml. exot. Schmett.: pl. *Pap.* 102, figs. 519-521 [1803-1804].

1. **ivallda** (Mead) *CHIONOBAS*. Canadian Ent., 10: 196 (1878). TL — Summit and Freel Peaks and Tullac Mt., Lake Tahoe, [Placer Co.], California. ST's in CM [see **Note 648**]. **749.**
2. **nevadensis** (C. and R. Felder) *CHIONOBAS*. Reise. . . Freg. Novara, 3: 489 [1866] ("1867"). TL — Sierra Nevada, California. HT probably in BM.
   a. **n. gigas** Butler. Cat. diurn. Lepid. Satyr. British Mus.: 161 (1868). TL — Vancouver I., [British Columbia]. HT in BM. **750a.**
   b. **n. nevadensis** (C. and R. Felder) CHIONOBAS. Reise . . . Freg. Novara, 3: 489 [1866] ("1867"). TL — Sierra Nevada, California. HT probably in BM. **750b.**
      = *californica* (Boisduval) *CHIONOBAS*. Ann. Soc. Ent. Belgique, 12: 62 (1869). TL — "California". HT apparently in USNM [see **Note 22**].
   c. **n. iduna** (W. H. Edwards) *CHIONOBAS*. Butt. N. America, 2: [275-277] (1874). TL — Mendocino Co., California. LT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 90: 390-392 (1964). **750c.**
3. **macounii** (W. H. Edwards) *CHIONOBAS*. Canadian Ent., 17: 74 (1885). TL — "Nepigon" (=Nipigon, Ontario, not Alberta, as stated by F. M. Brown, Trans. American Ent. Soc., 90: 387; 1964). LT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 90: 388-390 (1964). **751.**
4. **chryxus** (Doubleday and Hewitson) *CHIONOBAS*. Gen. diurn. Lepid., 1: pl. 64, fig. 1 [1849]. TL — "Rocky Mtns.", probably vic. Banff, Alberta. HT in BM.
   a. **c. strigulosa** McDunnough. Canadian Ent., 66: 86 (1934). TL — Gull Lake, Minden, Ontario. HT in CNC. **752a.**

b. **c. calais** (Scudder) *CHIONOBAS*. Proc. Ent. Soc. Philadelphia, 5: 7 (1865). TL — Rupert House, James Bay, [Quebec]. Type may be lost (MCZ?). 752b.

c. **c. caryi** Dyar. Proc. Ent. Soc. Washington, 6: 142 (1904). TL — Smith Landing, Athabasca, [Alberta]. HT in USNM. 752c.

d. **c. chryxus** (Doubleday and Hewitson) *CHIONOBAS*. Gen. diurn. Lepid., 1: pl. 64, fig. 1 [1849]. TL — "Rocky Mtns.", probably vic. Banff, Alberta. HT in BM. 752d.

e. **c. valerata** Burdick. Lepid. News, 11: 23-24 [1958] ("1957"). TL — Hurricane Ridge, Clallam Co., Washington. HT in LACM. 752e.

f. **c. stanislaus** Hovanitz. Ent. News, 48: 228 (1937). TL — Sonora Pass, 8400 ft., Alpine Co., California. HT in CAS. 752f.

5. **uhleri** (Reakirt) *CHIONOBAS*. Proc. Ent. Soc. Philadelphia, 6: 143 (1866). TL — "Rocky Mtns., Colorado Territory", restricted to vic. Georgetown, Clear Creek Co., Colorado by F. M. Brown, American Mus. Novitates, (1625): 6 (1953). ST's in FMNH.

a. **u. varuna** (W. H. Edwards) *CHIONOBAS*. Canadian Ent., 14: 205 (1882). TL — "plains of Dacotah Terr." LT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 90: 393-395 (1964). 753a.

= ab. "dennisi" Gunder. Canadian Ent., 59: 285-286 (1927). TL — Beulah, Manitoba. HT in CNC.

b. **u. nahanni** Dyar. Proc. Ent. Soc. Washington, 6: 142 (1904). TL — Nahanni Mtns., Dist. of Mackenzie. HT in USNM. 753b.

c. **u. cairnesi** Gibson. Rept. Canadian Arctic Exped., 3(1): 15 (1920). TL — White River dist., Yukon Territory. HT in CNC. 753c.

d. **u. uhleri** (Reakirt) *CHIONOBAS*. Proc. Ent. Soc. Philadelphia, 6: 143 (1866). TL — "Rocky Mtns., Colorado Territory", restricted to vic. Georgetown, Clear Creek Co., Colorado by F. M. Brown, American Mus. Novitates, (1625): 6 (1953). ST's in FMNH. 753d.

= f. "obscura" (W. H. Edwards) *CHIONOBAS*. Butt. N. America, 3: [294] (1892). TL — Clear Creek Canyon, Jefferson Co., Colorado, designated by F. M. Brown, Trans. American Ent. Soc., 90: 395 (1964). HT in CM.

e. **u. reinthali** F. M. Brown. American Mus. Novitates, (1625): 10-11 (1953). TL — Gothic, Colorado. HT in AMNH. 753e.

6. **alberta** Elwes. Trans. Ent. Soc. London, [1893]: 467-468 (1893). TL — nr. Calgary, [Alberta]. HT in BM.

a. **a. alberta** Elwes. Trans. Ent. Soc. London, [1893]: 467-468 (1893). TL — nr. Calgary, [Alberta]. HT in BM. 754a.

b. **a. oslari** Skinner. Ent. News, 22: 220 (1911). TL — Deer Creek Canyon, [S Morrison, Jefferson Co.], Colorado. HT in CM. 754b.

c. **a. capulinensis** F. M. Brown. J. New York Ent. Soc., 78: 137-138 (1970). TL — N slope Capulin Crater, Capulin, Union Co., New Mexico. HT in AMNH. 754c.

d. **a. daura** (Strecker) *CHIONOBAS*. Canadian Ent., 26: 225 (1894). TL — Mt. Graham, [Greenlee Co.], Arizona. HT in FMNH [see **Note 649**]. 754d.

7. **taygete** Geyer. *in* Hübner, Samml. exot. Schmett., 3: [pl. 17], figs. 1-4 [1830]. TL — "Labrador", restricted to Hopedale, Labrador by dos Passos, American Mus. Novitates, (1399): 6 (1949). NT in CM, designated by dos Passos, American Mus. Novitates, (1399): 6 (1949).

a. **t. taygete** Geyer. *in* Hübner, Samml. exot. Schmett., 3: [pl. 17], figs. 1-4 [1830]. TL — "Labrador", restricted to Hopedale, Labrador by dos Passos, American Mus. Novitates, (1399): 6 (1949). NT in CM, designated by dos Passos, American Mus. Novitates, (1399): 6 (1949). 755a.

= *bootes* (Boisduval) *CHIONOBAS*. Icon. Hist. Lepid.: 191 [1832]. TL — "Cape Nord, Kamschatka, Greenland and Labrador", restricted to Hopedale, Labrador by dos Passos, American Mus. Novitates, (1399): 7 (1949). Type probably lost [see **Note 650**].

b. t. **gaspeensis** dos Passos. American Mus. Novitates, (1399): 8-12 (1949). TL — Mt. Albert, Gaspé Natl. Park, Quebec. HT in AMNH. **755b.**

c. t. **fordi** dos Passos. American Mus. Novitates, (1399): 12-16 (1949). TL — [Bethel], Kuskoquim Valley, SW Alaska. HT in CM. **755c.**

d. t. **edwardsi** dos Passos. American Mus. Novitates, (1399): 16-20 (1949). TL — [Rio Grande Pyramid], San Juan Mtns., Hinsdale Co., Colorado. HT in AMNH. **755d.**

*8. **bore** (Schneider) *PAPILIO*. Neu. Mag. Liebhaber Ent., 4: 415 (1792). TL — "Lapland". Type probably lost [see **Note 651**].

a. **b. hanburyi** Watkins. Ann. Mag. Nat. Hist., (10)1: 617 (1928). TL — Coronation Gulf, [Northwest Territories]. HT in BM. **756a.**

b. **b. mckinleyensis** dos Passos. American Mus. Novitates, (1399): 2-8 (1949). TL — McKinley Park, Alaska. HT in AMNH [see **Note 652**]. **756b.**

*9. **jutta** (Hübner) *PAPILIO*. Samml. Europaischer Schmett., 1: 25 [1805-1806]. TL — "Lapland". Loc. of type not known [see **Note 9**].

= *balder* (Guérin-Méneville) *SATYRUS*. Icon. Regne Anim.: 487 [1831]. TL — Cap Nord [Norway]. Type may be in MNHN or lost.

a. **j. terraenovae** dos Passos. Canadian Ent., 67: 84 (1935). TL — Doyles Station, Newfoundland. HT in AMNH. Emended from original "*terra-novae*" by dos Passos, Mem. Lepid. Soc., (1): 104 (1964). **757a.**

b. **j. ascerta** Masters and Sorensen. Ent. News, 79: 80-82 (1968). TL — Solana State Forest, Aitkin Co., Minnesota. HT in CM. **757b.**

c. **j. ridingiana** F. and R. Chermock. Canadian Ent., 72: 82 (1940). TL — Riding Mountains, Manitoba. HT in CNC. **757c.**

d. **j. harperi** F. H. Chermock. *in* Masters, Bull. Assn. Minnesota Ent., (3)(2): 23-24 (1969). TL — Gillam, Manitoba. HT in AME [see **Note 653**]. **757d.**

e. **j. leussleri** Bryant. Bull. Brooklyn Ent. Soc., 30: 115 (1935). TL — Aklavik, Northwest Territories. HT should be in AMNH or Ohio State Univ. colln. **757e.**

f. **j. alaskensis** Holland. Ent. News, 11: 389 (1900). TL — mtns. between Fortymile and Mission Creeks, Alaska; American Creek, Alaska. ST's in CM. **757f.**

g. **j. chermocki** Wyatt. Zts. Wiener Ent. Gesells., 50: 70-71 (1965). TL — nr. Banff, Alberta. HT probably in Karlsruhe, Germany. **757g.**

h. **j. reducta** McDunnough. Canadian Ent., 61: 105 (1929). TL — Upper Gallatin Canyon, [Gallatin Co.], Montana. HT in CNC. **757h.**

10. **melissa** (Fabricius) *PAPILIO*. Syst. Ent.: 513 (1775). TL — "Insula Terre Nueve, Americae" (=Newfoundland). Type lost.

a. **m. melissa** (Fabricius) *PAPILIO*. Syst. Ent.: 513 (1775). TL — "Insula Terre Nueve, Americae" (=Newfoundland). Type lost. **758a.**

= *oeno* (Boisduval) *CHIONOBAS*. Icon. Hist. Lépid.: 195 (1832). TL — "Lapponie Russe, Labrador, n. Siberia." ST apparently in USNM [see **Note 22**].

b. **m. semidea** (Say) *HIPPARCHIA*. American Ent.: pl. 50 (1828). TL — White Mtns., New Hampshire. HT in ANSP (Peale colln.). **758b.**

= *eritiosa* (Boisduval) *CHIONOBAS*. Icon. Hist. Lépid.: 197 (1832). TL — White Mtns., New Hampshire. Loc. of type not known (USNM?).

= f. "nigra" (W. H. Edwards) *CHIONOBAS*. Butt. N. America, 3: [350] (1894). TL — White Mtns., New Hampshire. LT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 90: 401-402 (1964).

c. **m. semplei** Holland. Butt. Book (rev. ed.): 200 (1931). TL — Little Cape Jones R., E coast Hudson Bay, Quebec. ST's in CM. **758c.**

d. **m. assimilis** Butler. Cat. diurn. Lepid. Satyr. British Mus.: 163 (1868). TL — Repulse Bay, Northwest Territories. HT in BM. **758d.**

= *arctica* Gibson. Rept. Canadian Arctic Exped., 3(1): 13 (1920). TL — Bernard Harbour, Northwest Territories. HT in CNC.

= *simulans* Gibson. Rept. Canadian Arctic Exped., 3(1): 14 (1920). TL —

Bernard Harbour, Northwest Territories. HT in CNC.

e. **m. gibsoni** Holland. Butt. Book (rev. ed.): 200 (1931). TL — [Bethel], Kuskoquim River, Alaska. HT in CM. **758e.**

f. **m. beanii** Elwes. Trans. Ent. Soc. London, [1893]: 476-477 (1893). TL — Laggan, [Alberta]. HT in BM. **758f.**

g. **m. lucilla** Barnes and McDunnough. Contrib. Nat. Hist. Lepid. N. America, 4: 69 (1918). TL — Hall Valley, [Park Co.], Colorado. HT in USNM. **758g.**

11. **polixenes** (Fabricius) *PAPILIO.* Syst. Ent.: 484 (1775). TL — "America boreali". HT in BM [see **Note 654**].

a. **p. polixenes** (Fabricius) *PAPILIO.* Syst. Ent.: 484 (1775). TL — "America boreali". HT in BM [see **Note 654**]. **759a.**

= *crambis* (Freyer) *CHIONOBAS.* Neu. Beitr., 5: pl. 440, figs. 3-4 (1845). TL — "America". Loc. of type not known.

b. **p. katahdin** (Newcomb) *CHIONOBAS.* Ent. News, 12: 206 (1901). TL — Mt. Katahdin, [Penobscot Co.], Maine. ST's in USNM and AME. **759b.**

c. **p. subhyalina** (Curtis) *HIPPARCHIA. in* Ross, Narr. 2nd Voy. Northwest Pass., Append.: 68 (1835). TL — "Boothia Felix" (=Boothia Peninsula, Northwest Territories). ST's apparently in USNM [see **Note 22**]. **759c.**

d. **p. peartiae** (W. H. Edwards) *CHIONOBAS.* Butt. N. America, 3: pl. 14, figs. 5-8 (1897). TL — Winter Cove, Cambridge Bay, Victoria Land, [Dist. Franklin], Northwest Territories. HT in CM; see F. M. Brown, Trans. American Ent. Soc., 90: 400 (1964). **759d.**

e. **p. yukonensis** Gibson. Rept. Canadian Arctic Exped., 3(1): 15 (1920). TL — Klutlan Glacier, Yukon Territory, 8200 ft. HT in CNC. **759e.**

f. **p. brucei** (W. H. Edwards) *CHIONOBAS.* Canadian Ent., 23: 33 (1891). TL — vic. Bullion and Hayden Mtns., Hall Valley, Park Co., Colorado, restricted by F. M. Brown, Trans. American Ent. Soc., 90: 395-397 (1964). LT in CM, designated by F. M. Brown, Trans. American Ent. Soc., 90: 396-397 (1964). **759f.**

Family **DANAIDAE** Duponchel

Cat. Méth. Lépid. d'Europe: 2 (1844) [see **Note 657**].

Subfamily **Danainae** Duponchel

Cat. Méth. Lépid. d'Europe: 2 (1844, as "Danaides") [see **Notes 1** and **657**].

Genus CCXL: **Danaus** Kluk

Zwierz. Hist. Nat. Pocz. Gospod., 4: 84 (1802). Type-species by designation of Hemming, Entomologist, 66: 222 (1933) *Papilio plexippus* Linnaeus, Syst. Nat., ed. 10, 1: 471 (1758) [see **Notes 658, 659** and **660**].

= *Danaida* Latreille, Nouv. Dict. Hist. Nat., 24: 185, 199 (1804). Type-species by monotypy *Papilio plexippus* Linnaeus, Syst. Nat., ed. 10, 1: 471 (1758).

= *Danais* Latreille, Mag. f. Insecktenk. (Illiger), 6: 291 (1807). Type-species by monotypy *Papilio plexippus* Linnaeus, Syst. Nat., ed. 10, 1: 471 (1758).

= *Anosia* Hübner, Verz. bekannt. Schmett., (1): 16 [1816]. Type-species by designation of Scudder, Proc. American Acad. Arts Sci., 10: 113 (1875) *Papilio gilippus* Cramer, Uitl. Kapellen, 1: 41 [1775].

= *Festivus* Crotch, Cist. Ent., 1: 62 (1872). Type-species by original designation *Papilio plexippus* Linnaeus, Syst. Nat., ed. 10, 1: 471 (1758).

= *Tirumala* Moore, Lepid. Ceylon, 1: 4 [1880]. Type-species by original designation *Papilio limniace* Cramer, Uitl. Kapellen, 1: 92 [1775].

= *Salatura* Moore, Lepid. Ceylon, 1: 5 [1880]. Type-species by original designation *Papilio genutia* Cramer, Uitl. Kapellen, 3: 23 [1779] [see **Note 661**].
= *Parantica* Moore, Lepid. Ceylon, 1: 7 [1880]. Type-species by original designation *Papilio aglea* Stoll, *in* Cramer, Uitl. Kapellen, 4: 173 [1782].
= *Chittira* Moore, Lepid. Ceylon, 1: 8 [1880]. Type-species by original designation *Danais fumata* Butler, Proc. Zool. Soc. London, [1866]: 52 (1866) (=*Danais taprobana* C. and R. Felder, Reise Freg. Novara, Lepid. Rhop., (2): 349 (1865) [see **Note 662**].
= *Caduga* Moore, Proc. Zool. Soc. London, [1882]: 235 (1882). Type-species by monotypy *Danais tytia* G. R. Gray, Descr. Lepid. Ins. Nepal: 9 (1846) [see **Note 663**].
= ‡*Melinda* Moore, Proc. Zool. Soc. London, [1883]: 229 (1883). Type-species by monotypy *Danais formosa* Godman, Proc. Zool. Soc. London, [1880]: 183 (1880). Preoccupied by *Melinda* Robineau-Desvoidy, Mem. Presentes Acad. Roy. Sci. Inst. France, 2: 439 (1830).
= *Lintorata* Moore, Proc. Zool. Soc. London, [1883]: 229 (1883). Type-species by monotypy *Lintorata menadensis* Moore, Proc. Zool. Soc. London, [1883]: 229 (1883).
= *Nasuma* Moore, Proc. Zool. Soc. London, [1883]: 229 (1883). Type-species by monotypy *Papilio ismare* Cramer, Uitl. Kapellen, 3: 156 [1780].
= *Tasitia* Moore, Proc. Zool. Soc. London, [1883]: 235 (1883). Type-species by original designation *Papilio gilippus* Cramer, Uitl. Kapellen, 1: 41 [1775].
= *Ravadeba* Moore, Proc. Zool. Soc. London, [1883]: 244 (1883). Type-species by original designation *Papilio cleona* Stoll, *in* Cramer, Uitl. Kapellen, 4: 173 [1782] [see **Note 664**].
= *Phirdana* Moore, Proc. Zool. Soc. London, [1883]: 245 (1883). Type-species by designation of W. F. Kirby, Zool. Rec., 20 (Ins.): 168 [1884] *Danais pumila* Boisduval, Bull. Soc. Ent. France, [1859]: 156 (1859).
= *Bahora* Moore, Proc. Zool. Soc. London, [1883]: 245 (1883). Type-species by original designation *Euploea philomela* Zinken, Nova Acta. Leop. Carol., 15: 184 (1831).
= *Asthipa* Moore, Proc. Zool. Soc. London, [1883]: 246 (1883). Type-species by original designation *Danais vitrina* C. and R. Felder, Wiener Ent. Monats., 5: 300 (1861).
= *Mangalisa* Moore, Proc. Zool. Soc. London, [1883]: 248 (1883). Type-species by original designation *Euploea albata* Zinken, Nova Acta. Leop. Carol., 15: 181 (1831).
= *Badacara* Moore, Lepid. Indica, 1: 65 [1890]. Type-species by original designation *Danais nilgiriensis* Moore, Ann. Mag. Nat. Hist., (4)20: 44 (1877).
= *Chlorochropsis* Rothschild, Iris, 5: 430 (1892). Type-species by monotypy *Chlorochropsis dohertyi* Rothschild, Iris, 5: 430 (1892) [see **Note 665**].
= *Elsa* Honrath, Berliner Ent. Zts., 36: 436 (1892). Type-species by monotypy *Elsa morgeni* Honrath, Berliner Ent. Zts., 36: 436 (1892).
= *Danaomorpha* Kremky, Ann. Zool. Mus. Polonia Hist. Nat., 4: 164, 167 (1925). Type-species by monotypy *Papilio gilippus* Cramer, Uitl. Kapellen, 1: 41 [1775].
= *Panlymnas* Bryk, Lepid. Cat., 78: 56 (1937). Type-species, as replacement name, *Papilio chrysippus* Linnaeus, Syst. Nat., ed. 10, 1: 471 (1758).
= *Diogas* d'Almeida, O Campo, 9(102): 41 (1938). Type-species by original designation *Papilio erippus* Cramer, Uitl. Kapellen, 1: 4 [1775].

1. **plexippus** (Linnaeus) *PAPILIO*. Syst. Nat., ed. 10, 1: 471 (1758). TL — "Pennsylvania", designated by I. C. Z. N. (Op. 282) (1954). NT in USNM, designated by I. C. Z. N. (Op. 282) (1954). [see **Note 666**]. **760.**

= ‡*archippus* (Fabricius) *PAPILIO*. Ent. Syst., 3: 49 (1793). TL — "America

meriodionali". ST's in Kiel. Preoccupied by *archippus* Cramer, Uitl. Kapellen, 1: 24 [1775].

= *curassavicae* (Fabricius) *EUPLOEA*. Mag. f. Insecktenk., 6: 69 (1807). TL — "America meriodionali". ST's in Kiel.

= ab. "fumosus" (Hulst) *DANAIS*. Ent. Americana, 2: 182 (1886). TL not stated. HT in USNM.

= ab. "pulchra" (Strecker) *DANAIS*. Lepid. Rhop. Het., Suppl. 3: 21 (1900). TL — "Colorado". HT in FMNH.

= ab. "americanus" Gunder. Ent. News, 38: 137-138 (1927). TL — Sunny Glen Ranch, Brewster Co., Texas. HT in AMNH.

= ab. "nivosus" Gunder. Ent. News, 38: 138 (1927). TL — Jefferson Barracks, Missouri. HT in AMNH.

*2. **gilippus** (Cramer) *PAPILIO*. Uitl. Kapellen, 1: 41 [1775]. TL — Rio de Janeiro, Brasil. Loc. of type not known (BM, Leiden, lost?) [see **Notes 7** and **667**].

a. **g. berenice** (Cramer) *PAPILIO*. Uitl. Kapellen, 3: 22 [1780]. TL — "Jamaica", probably Georgia. Type may be lost [see **Note 7**]. **761a.**

b. **g. strigosus** (Bates) *DANAIS*. Ent. Mo. Mag., 1: 32-33 (1864). TL — "Guatemala". ST's in BM. **761b.**

= ab. "kerri" J. A. Comstock. Bull. S. California Acad. Sci., 24: 3-4 (1925). TL — Blythe, [Riverside Co.], California. HT in LACM.

*3. **eresimus** (Cramer) *PAPILIO*. Uitl. Kapellen, 2: 121-122 [1777]. TL — "Surinam". Loc. of type not known (BM, Leiden, lost?) [see **Notes 7** and **668**].

a. **e. montezuma** Talbot. Trans. Roy. Ent. Soc. London, 93: 120 (1943). TL — "Misantha, Veragua", Mexico. HT in BM. **762a.**

b. **e. tethys** Forbes. J. New York Ent. Soc., 51: 301-302 (1943). TL — Fond Parisien, Haiti. HT in AMNH [see **Note 669**]. **762b.**

Subfamily **Ituninae** Reuter

Acta Soc. Sci. Fennica, 22: 311 (1896)[see **Notes 1** and **670**].

= Lycoreinae Kaye, Trans. Ent. Soc. London, [1904]: 162 (1904) [see **Note 671**].

Genus CCXLI: **Lycorea** Doubleday and Hewitson

Gen. diurn. Lepid., 1: pl. 16 [1847]. Type-species by designation of Scudder, Proc. American Acad. Arts Sci., 10: 210 (1875) *Lycorea atergatis* Doubleday and Hewitson, Gen. diurn. Lepid., 1: pl. 16 [1847] (=*Heliconia [sic.] cleobaea* Godart, Enc. Meth., 9: 222 [1819], subspecies).

= *Lycorella* Hemming, Entomologist, 66: 222 (1933). Type-species, as replacement name, *Lycorea atergatis* Doubleday and Hewitson, Gen. diurn. Lepid., 1: pl. 16 [1847] (=*Heliconia [sic.] cleobaea* Godart, Enc. Meth., 9: 222 [1819], subspecies).

*1. **cleobaea** (Godart) *HELICONIA [sic.]*. Enc. Meth., 9: 222 [1819]. TL — "Brasil; Antilles". ST's may be in MNHN.

= ‡*ceres* (Cramer) *PAPILIO*. Uitl. Kapellen, 1: 141 [1776]. TL — "Surinam". Loc. of type not known [see **Note 7**]. Preoccupied by *Papilio ceres* Fabricius, Syst. Ent.: 504 (1775).

* a. **c. demeter** C. and R. Felder. Reise Freg. Novara; Lepid. Rhop., 3: 352 [1865]. TL — "Cuba". HT should be in BM. **763a.**

b. **c. atergatis** Doubleday and Hewitson. Gen. diurn. Lepid., 1: pl. 16 [1847]. TL — "Venezuela". HT in BM. **763b.**

NOTES

1. The proposition of a name in one family-group category automatically establishes names in other family-group categories *(International Code of Zoological Nomenclature:* Art. 36).

2. Name was proposed as "Hesperides".

3. The Hesperioidea have been afforded subordinal status (as "Grypocera") by some of the earlier authors, especially Europeans.

4. Name misspelled as "*Pyrrhopyga*" by Westwood, Gen, diurn. Lepid., 5: 508 [1852].

5. Name misspelled as "*Apyrrhothrix*" by Evans, Cat. American Hesp. . .British Museum, (1): 8 (1951).

6. The Plötz types mostly do not exist. What few there are seem to be in Munich or Berlin and possibly Vienna. What we know about the Plötz names generally is from the unpublished drawings that he left, the American ones of which were summarized by Godman, Ann. Mag. Nat. Hist., (7)20: 132-155 (1907).

7. Most of Cramer's types are lost or are no longer recognizable. A few still exist in the Van Lennep material in London, and others may be found in Amsterdam or Leiden. Some species were described from collections such as Drury's that were sold at auction and are no longer recognizable.

8. This subspecies commonly misidentified as *batabano* (Lucas), 1857, a Cuban subspecies.

9. Most of the Hübner types are lost, but what few are still extant are in Vienna.

10. In Doubleday, Westwood and Hewitson, *Gen. diurn. Lepid.*, [1846-52], all names proposed in the text are credited either to Doubleday or to Westwood; in cases where names first appeared on plates, then were subsequently described in the text, the names are credited either to Doubleday and Hewitson or to Westwood and Hewitson. Hewitson's part in the volumes was solely that of an illustrator: the actual text was written by Doubleday or Westwood (F. M. Brown, Ann. Ent. Soc. America, 34: 127-137) 1941.

11. The Geyer types, like those of Hübner (see Note 9 above) are probably lost. What few may exist are probably in Vienna.

12. Names such as this were proposed in non-Latin form by Latreille and Godart. Such names have been emended frequently and incorrectly by adding an "*i*" to the end of the name. Such emendations are here treated as unjustified.

13. Name misspelled as "*maculata*" by Seitz, Grossschmett. Erde, (5): pl. 161d. (1925).

14. Name misspelled as "*Goniuris*" by Westwood, Gen. diurn. Lepid., (2): 510 (1852); and as "*Goniarus*" by Mabille, Bull. C. R. Soc. Ent. Belgique, 35: 9 (1891).

15. The Stoll types, like Cramer's, mostly have been lost. What few remain are in the same collections as the Cramerian ones (see Note 7 above).

16. The Swainson types were sold at auction well over a century ago and were lost, or at least they are presently unidentifiable.

17. The name *Telegonus* long was used for this genus because of a misapplicaltion of *Astraptes* and the feeling that Butler, Ent. Mo. Mag., 7: 56 (1870), had made a First Revisor choice of *Telegonus* over *Astraptes*.

18. In the case of specimens described from Jones' collection, the types long since have been lost, but the figures in Jones' unpublished *Icones,* now preserved at Oxford, are considered to be the types. Nevertheless, in accordance with present taxonomic practice, neotypes may be required, but such designations should be done *only* in revisionary studies.

19. This name, like several others described by various authors, was named from material in the Staudinger collection, and the types were returned to Staudinger. It is assumed that the types are now in Berlin with the remainder of the Staudinger collection.

20. This insect is recorded by dos Passos, Mem. Lepid. Soc., (1): 26 (1964), as *Astraptes alector hopfferi* (Plötz), 1882, a very different skipper.

21. This butterfly has been recorded as *hahneli* for many years, but it is not the *hahneli* of Staudinger, 1888.

22. When the Oberthür collection was sold, most of the specimens went to the British Museum (Natural History). However, Dr. William Barnes arranged with the Oberthür family that he would buy the type specimens from the Nearctic that were included in the Oberthür holdings. The material so obtained passed with the Barnes collection to the National Museum of Natural History. Most of the types so obtained were Boisduval's, but in a few cases material representing names proposed by Boisduval and Leconte may have been included. The Boisduval "types" must be compared closely with the original descriptions, however, because in at least some instances these are pseudotypes (see F. M. Brown, J. Lepid. Soc., 19: 197-211, (1965), for an example of the confusion possible with these Boisduval "types").

23. Name misspelled as "*epigona*" by Godman and Salvin, Biol. cent.-Americana, Lepid. Rhop., 2: 332 (1894).

24. Lintner originally intended to describe this taxon as "*Eudamus orestes*" in 1876, but it never appeared. W. H. Edwards, Trans. American Ent. Soc., 6: 58 (1877), listed the name as a Lintner Ms. name. Lintner in 1878 was aware of Butler's description of *epigena* and simply mentioned his proposed name in passing, never formally describing it. The name, therefore, in all of its citations is simply a *nomen nudum* and should be eliminated from all future lists. A full explanation of this course is given by F. M. Brown and L. Miller, Trans. American Ent. Soc., 101: 602-603 (1975).

25. This name is not applied to the North American insect here because the description and the plate could as easily fit one of several Neotropical skippers and the original type-locality was stated as "Surinam".

26. The description of this name (in a footnote) leaves a great deal to the imagination. Perhaps the name does not even apply to a Nearctic skipper, but since it has been carried in the North American literature, it is continued here with the precautions now given.

27. There is a strong possibility that the original type of this name no longer can be identified. Scudder apparently described some entities more on an idea of a taxon than on the basis of a single type specimen.

28. Name misspelled as "*aemilia*" by Evans, Cat. American Hesp. . .British Museum, (2): 131 (1952).

29. Name misspelled as "*corusis*" by Evans, Cat. American Hesp. . . British Museum, (2): 131 (1952).

30. Name misspelled as "*paucipunctata*" by Evans, Cat. American Hesp. . .British Museum, (2): 129 (1952).

31. Name misspelled as "*valerius*" by Godman, Ann. Mag. Nat. Hist., (7)20: 135 (1907).

32. This name only reluctantly placed in the synonymy of *valeriana*, chiefly on Evans' Cat. American Hesp. . . British Museum, (2): 132 (1952), placement of the name. Quite possibly *mysie* is a species quite apart from *valeriana*.

33. This name has frequently been misspelled in the literature, not surprisingly because of its length. The misspellings began with Hübner, Zutr. z. Samml. exot. Schmett., 3: 38 [1827-1831].

34. This genus has been called *Nascus* by authors, but it is not the *Nascus* of Watson, Proc. Zool. Soc. London, [1893]: 18, 28 (1893).

35. Evans, Cat. American Hesp. . . British Museum, (3): 20 (1953) suggests that Godman and Salvin selected the type-species of this genus, but Hemming, Bull. British Mus. (Nat. Hist.), Ent., Suppl. (9): 359 (1967) correctly attributes the type fixation as shown here.

36. Evans, Cat. American Hesp. . .British Museum, (3): 20 (1953) states that this name is a homonym of *Phaedinus* Du Pont, Ann. Soc. Ent. France, 3: 38 (1834), but the one-letter rule of homonymy makes this action incorrect. Nevertheless, as correctly pointed out by Hemming, Bull. British Mus. (Nat. Hist.), Ent., Suppl. (9): 359 (1967), the name is still preoccupied as shown here.

37. Evans, Cat. American Hesp. . .British Museum, (3): 58 (1953) described this as a subspecies of *P. costimacula* Herrich-Schäffer, 1870. We follow the advice of H. A. Freeman in attributing specific ranking to it.

38. The mention of a name without a description or indication of the type-species is, of course, not grounds for using it. Therefore, even though Mabille mentioned *Bolla* in conjunction with *pullata,* he did so in such a way that the name was unavailable. Accordingly, Hemming, Bull. British Mus., Ent., Suppl. (9): 79 (1967) was in error in his citation of "*Bolla pullata* Mabille, 1878. . ." as the type-species.

39. Evans, Cat. American Hesp. . .British Mus., (3): 89-91 (1953) considers this species and the next to be subspecies. Recent research has shown this not to be the case, with sympatries noted between several of the "subspecies". All are best considered species in their own rights.

40. Reakirt described many things from "coll. W. H. Edwards". Several of these are in the Strecker collection; others might be in W. H. Edwards' collection. In either case, we have been unable to find the type of this species.

41. Some authors, such as Hayward, Opera Lilloana, 23: 46 (1973), consider *begga* to date from its validation by W. F. Kirby, Cat. diurn. Lepid.: 606 (1871). This course was followed by dos Passos, Mem. Lepid. Soc., (1): 23 (1964). Many other names would have to be considered *nomina nuda* were the Hayward-dos Passos course adhered to rigorously, thus upsetting the nomenclature greatly. This course we are reluctant to follow.

42. This name has commonly been misspelled "*tryxus*" by subsequent authors.

43. This name misspelled "*ruatensis*" by Evans, Cat. American Hesp. . .British Museum, (3): 155 (1953).

44. The generic and specific diagnoses were based on the body of this species with a glued on satyrid head.

45. The misapplication of the name *zampa* is explained in L. Miller, Ann. Carnegie Mus., 41: 183-184 (1970) and by F. M. Brown and L. Miller, Trans. American Ent. Soc., 101: 613-615 (1975).

46. This name oftens misspelled as "*Achylodes*" by subsequent authors.

47. Evans, Cat. American Hesp. . .British Mus., (3): 198 (1953), considers *pelagica* (Weeks), *PYRGUS,* Canadian Ent., 23: 6 (1891), identical with this taxon. He has been followed by other authors, but as shown by L. Miller, Ann. Carnegie Mus., 41: 186-187 (1970), the two taxa are abundantly distinct.

48. Actually *otreus* Stoll is a synonym of *Papilio philemon* Fabricius, Syst. Ent.: 534 (1775), a subspecies of arcas Drury, [1773].

49. Name misspelled or emended to "*Thymale*" by Oken, Lehrb. Naturges., 3(Zool.) (1): 757-758 (1815). In any event both names are junior objective synonyms of *Erynnis* Schrank, 1801.

50. Name emended to *Thanatos* by [Dunning and Pickard], Accentuated List British Lepi.: 6 [1858].

51. Name misspelled as "*Thanaus*" by Kirby, *in* Allen's Nat. Libr., Lepid. 3: 12 (1897).

52. Name often (and incorrectly) applied to *E. pacuvius callidus* (Grinnell) (which see). This taxonomic problem resolved by Burns, Univ. California Publ. Ent., 37: 58-59 (1964).

53. There was much misunderstanding of this name in the literature. Apparently W. H. Edwards described this species from a mixed series, all of which were in his possession, but Barnes and McDunnough, Contrib. Nat. Hist. Lepid. North America, 3: 124 (1916) selected a Neumoegen specimen as the Lectotype that was not seen by W. H. Edwards. This selection remained unchallenged until F. M. Brown and L. Miller, Trans. American Ent. Soc., 101: 617-621 (1975) determined that the true type-series was that in Edwards' own collection and acted accordingly.

54. This species consistently misidentified as *plautus* (Scudder and Burgess), a synonym of *juvenalis* (Fabricius).

55. Evans, Cat. American Hesp. . .British Mus., (3): 212 (1953) included this species

as a subspecies of *juvenalis* (Fabricius). Burns, Univ. California Publ. Ent., 37: 94-107 (1964) unsnarled the nomenclature of this insect.

56. Burns, Univ. California Publ. Ent., 37: 113-116 (1964) discusses the problems of this species, emphasizing particularly that Fort Grant is a lowland locality and that the type must have come from the flanks of Mt. Graham.

57. Evans, Cat. American Hesp. . .British Mus., (3): 210 (1953) classifies this as a synonym of *p. lilius* (Dyar).

58. Evans, Cat. American Hesp. . .British Mus., (3): 209 includes this taxon as a subspecies of *zarucco* (Lucas).

59. There is considerable confusion with regard to this name. Burns, Univ. California Publ. Ent., 37: 173-174 (1964) discusses this confusion and its ultimate solution in some detail.

60. In biological and morphological detail Scudder was confusing both this species and *baptisiae* (Forbes). We are here following Burns, Univ. California Publ. Ent., 37: 191-193 (1964) in our application of names to this difficult complex.

61. Owing to an erroneous type-designation, summarized by Scudder, Proc. American Acad. Arts Sci., 10: 187-189 (1875), of *Hesperia* Fabricius, 1793, most of what is now known as *Pyrgus* was previously known as *Hesperia*. The resolution of this problem led to the redefinition of the Pyrginae and the Hesperiinae (formerly, though incorrectly, Pamphilinae), as well as their respective type-genera.

62. The action of Plötz, Stettiner Ent. Ztg., 40: 179 (1879), in which he cited *malvae* as the type-species for *Carcharodus* Hübner, Verz. bekannt. Schmett., (7): 110 [1819], further confused the issue surrounding *Pyrgus*. Suffices to say that the situation is well explained by Hemming, Bull. British Mus. (Nat. Hist.) Ent., Suppl. (9): 94-95 (1967) and that *Carcharodus* is not part of the Nearctic fauna.

63. Name often misspelled "*Scelothrix*" following Scudder, Proc. American Acad. Arts Sci., 10: 266 (1875).

64. Evans, Cat. American Hesp. . .British Mus., (3): 214 (1953) lists "*reducta* Warren, 1926" as a synonym of this name. We have been unable to find a "reducta" under *freija* in the place cited (even though there are several other "ab. reducta" listed for other taxa), and we must suggest that "reducta" was a *lapsus* for ab. "fasciata" Warren, as shown here and by dos Passos, Mem. Lepid. Soc., (1): 18 (1964).

65. Name often misspelled "*caespitalis*" after Boisduval, Ann. Soc. Ent. Belgique, 12: (1869).

66. Name misspelled as "*ricaria*" by McDunnough, Mem. So. California Acad. Sci., 1: 31 (1938).

67. Apparently redescribed under the same name by Plötz, Mitth. Nat. Ver. Neuworpomm., 15: 14 (1884), but name not credited to W. H. Edwards.

68. Emended (unjustifiably) to "*macdunnoughi*" by dos Passos, Mem. Lepid. Soc., (1): 19 (1964).

69. This name long carried as a subspecies of *communis* (Grote) but restored to specific standing on the advice of H. A. Freeman.

70. Name misspelled as "*fumata*" by Reverdin, Bull. Soc. Lepid. Geneve, 4: 181 (1921).

71. The subspecies *willi* (Plötz) (*PYRGUS*) Mitth. Nat. Ver. Neuvorpomm., 15: 3 (1884), described from Minas Gerais, is credited to our fauna by dos Passos, Mem. Lepid. Soc., (1): 18 (1964). This is in error — *willi* is the southern South American subspecies and is found no further north than Brasil.

72. Name misspelled as "*mexicana*" by Godman and Salvin, Biol. Cent.-Americana, Lepid. Rhop. 2: 441 (1897).

73. The entire, confused nomenclatorial history of this name is summarized by Hemming, Bull. British Mus., Ent., Suppl. 9: 96-97 (1967).

74. Name proposed because of a misreading of Lederer's description of *Carterocephalus*. Since *palaemon* is specified as the type-species, the name remains available, though a subjective synonym.

75. In this and other instances the Palearctic synonymy of the name is not given,

except for times when names of forms, *etc.* have been applied to Nearctic populations.

76. W. H. Edwards described *skada* twice, the holotype of the second-described *skada* is definitely extant, and to prevent confusion the same specimen was made the neotype of the first description (see F. M. Brown and L. Miller, Trans. American Ent. Soc., 103: 263-264 (1977).

77. Until the description of this genus, the species included were usually placed either in *Butleria* Kirby, Syn. Cat. diurn. Lepid.: 624 (1871), a South American genus, or in *Dalla* Mabille, *in* P. Wytsman, Gen. Ins., 17B: 107 (1904), a Neotropical genus that does not occur in the Nearctic.

78. This genus commonly known as "*Cymaenes*" of authors, not Scudder, 4th Ann. Rept. Peabody Acad. Sci., [1871]: 82 (1872).

79. Evans, Cat. American Hesp. . .British Mus., (4): 124 (1955) considered this taxon conspecific with *M. telata* (Herrich-Schäffer, CorrespBl. zool.-min. Ver. Regensburg, 23: 201, 1869), but Bell, Ent. News, 52: 183-185 (1941) makes a very strong case for the distinctness of the two entities. We are here following Bell, rather than Evans, on the advice of several colleagues.

80. The specific name as given is in accordance with Arts. 27 and 32 and Recommendation 31A of the International Code of Zoological Nomenclature. Hemming, Bull. British Mus. (Nat. Hist.), Ent., Suppl. 9: 306 (and elsewhere) (1967), employs an "automatic emendation" clause of the "Code" that was at least suggested in that document (1961 edition), but was deleted from the "Code" by the XVI Congress of Zoology, 1963. This being the case, the emendation of the name to "*lherminieri*" is an unjustified emendation ("Code", Art. 33 (a) (i)), no matter to whom it must be attributed.

81. Scudder, Butt. E. U. S. Canada, 2: 1768 (1889), mentioned two names within this species, "*chamis*" and "*curtius*", but these are not properly proposed and are *nomina nuda*, notwithstanding the fact that they have been carried in the litarure ever since. The International Code of Zoological Nomenclature (Art. 11(b)) provides that names proposed in synonymy are not available, hence the two names in question here are deleted from the listing.

82. Name originally proposed as subspecies of *ancillaris* (Butler) *PAMPHILA,* Trans. Ent. Soc. London, [1877]: [151] (1877), but definitely not that species.

83. A number of authors, notably dos Passos, Mem. Lepid. Soc., (1): 15 (1964), have placed this name as a homonyn of *Papilio phocion* Fabricius, Spec. Ins., 2: 138 (1781) and *Papilio phocion* Fabricius, Ent. Syst., 3(1): 218 (1793), the first of these an African skipper and the last an American satyrid (see *Neonympha areolatus*). We have been unable to locate a *Papilio phocion* in Fabricius' *Mantissa Insectorum* (1787). The present use of *phocion* by Fabricius is, however, the first in the genus *Hesperia,* hence, it is an available name, not a homonyn, although Gmelin's name predates it by three years.

84. Name classed as a subspecies of *cubana* (Herrich-Schäffer) *GONILOBA,* CorrespBl. zool.-min. Ver. Regensburg, 19: 55 (1865), by Evans, Cat. American Hesp. . .British Mus., (4): 282 (1955), but colleagues inform us that the two taxa are separable at the specific level.

85. This species misidentified as "*orope*" by Plötz and the error carried on by Seitz, Grossschmett. Erde, 5: pl. 182i (1925).

96. Name commonly misspelled "*Ancyloxipha*" by authors.

87. Misidentified and redescribed as *garita* by Plötz, Stettiner Ent. Ztg., 45: 287 (1884).

88. Misidentified as *poweshiek* by Godman, *in* Godman and Salvin, Biol. Cent.-Americana, Lepid. Rhop., 2: 469 (1900).

89. Misidentified as *Pholisora lena* by W. G. Wright, Butt. W. Coast: 235 (1905).

90. Misidentified as *garita* by Godman, *in* Godman and Salvin, Biol. Cent.-Americana, Lepid. Rhop., 3: pl. 92, fig. 25 (♂ genitalia) (1900), and by Draudt, in Seitz, Grossschmett. Erde, 5: 927 (1923).

91. Misidentified as *nanus* by Watson, Proc. Zool. Soc. London, (1893): 98 (1893).

92. Misidentified as *aurantiaca* by Godman, *in* Godman and Salvin, Biol. Cent.-Americana, Lepid. Rhop., 2: 473 (1900).

93. W. H. Edwards had a mixed series of *aurantiaca* and *minima* before him when he described the present taxon. Accordingly, F. M. Brown and L. Miller, Trans. American Ent. Soc., 103: 273-274 (1977) selected a specimen of the former from the type-series to serve as lectotype. This then makes Edwards' name actually a synonym of *aurantiaca*, rather than *minima*, even though the name must be carried in the synonymy of both senior synonyms.

94. Type-species was stated to be *Ancyloxypha simplex* R. Felder, Verh. zool.-bot. Ges. Wien, 19: 476 (1969), but the identification was faulty. Therefore, the Commission has been requested to use its Plenary Powers to validate the type-selection as given here.

95. This species commonly misidentified as *Ancyloxypha simplex* R. Felder, Verh. zool.-bot. Ges. Wien, 19: 476 (1869), a different insect in the genus *Copaeodes* (genus LVIII).

96. Name misspelled as "*Thymelinus*" after Stephens, Ill. British Ent., Haustellata 4: 405 (1835), and as "*Thymeticus*" by W. H. Edwards, Trans. American Ent. Soc., 3: 274 (1871).

97. Name misspelled as "*Adopaea*" after McDunnough, Mem. S. California Acad. Sci., 1: 32 (1938).

98. This strange pamphlet has been seen by very few, if any, modern entomologists. The citation here given is taken directly from Hemming, Bull. British Mus. (Nat. Hist.), Ent. Suppl. 9: 349-350 (1967). Only time will tell whether the pamphlet can be considered to have been published in the modern usage of the word.

99. The Drury collection was sold at auction shortly after his death, and no specimens have thus far been recognized as Drury types. It is doubtful that any exist today.

100. Name commonly misspelled as "*phylaeus*" by subsequent authors.

101. Misidentified as "*brettus*" by Holland, Butt. Book.: pl. 47, fig. 40 (1898), and as "*brettoides*" by W. G. Wright, Butt. W. Coast: 245 (1905).

102. Misidentified by Godman, *in* Godman and Salvin, Biol. Cent.-Americana, Lepid. Rhop., 2: 474 (1900), as "*reticulata* H-S.", an obvious error since that name refers to a subspecies of the Neotropical hesperiid *Saturnus tiberius* (Möschler). Godman was further wrong about the authorship of the name: *reticulata* was named by Plötz from a Herrich-Shäffer MS.

103. Traditionally this name has been carried as a synonym of *eunus* (W. H. Edwards), but we are inclined to the opinion that they are good subspecies for the reasons expressed earlier (F. M. Brown and L. Miller, Trans. American Ent. Soc., 103: 279, (1977).

104. Proposed as a replacement name for *Hesperia* Fabricius, 1793, wrongly thought to be preoccupied. Ironically, the "replacement" name itself is preoccupied!

105. Tutt was in error in attributing this name to Barbut, thereby making it a senior synonym of *Hesperia*. Barbut, however, did not use the name in a generic sense (Hemming, Bull. British Mus. (Nat. Hist.), Suppl. 9, 454, 1967).

106. Name misspelled as "*unkas*" by Mabille, *in* P. Wytsman, Gen. Ins., 17B: 126 (1904).

107. Species frequently misidentified as *comma* by Boisduval, Ann. Soc. Ent. France, (2)10: 313 (1852), as *viridis* by W. G. Wright, Butt. W. Coast: 239 (1905), as *colorado* by W. G. Wright, Butt. W. Coast: 239 (1905) and as *nevada* by Garth, Bull. S. California Acad. Sci., 33: 134, 135 (1934).

108. Misidentified as *colorado* by Dary, J. New York Ent. Soc., 13: 129, 130 (1905).

109. Misidentified as *manitoba* by W. G. Wright, Butt. W. Coast: 240 (1905), as *colorado* by W. G. Wright, Butt. W. Coast: 240, 241 (1905, in part), as *oregonia* by W. G. Wright, Butt. W. Coast: 242 (1905, in part), as *viridis* by J. A. Comstock, Butt. California: 219 (1927, in part), as *leussleri* by Lindsey, Denison Univ. Bull., J. Sci. Labs., 37: 10, 27, 28 (1942, in part) and as *ruricola* by dos Passos, J. Lepid. Soc., 14: 30 (1960).

110. Misidentified as *colorado* by Garth, Bull. S. California Acad. Sci., 34: 71, 74 (1935) and as *harpalus* by Lindsey, Ann. Ent. Soc. America, 33: 373, 375 (1940).

111. Name misspelled "*oregonio*" by Oberthür, Bull. Soc. Ent. France, 16: 350 (1912).

112. Misidentified as *ruricola* by W. G. Wright, Butt. W. Coast: 238 (1905), as *juba* by J. A. Comstock, Butt. California: 218 (1927, in part), as *nevada* by J. A. Comstock, Butt. California: pl. 60, fig. 23 (1927), as *manitoba* by Blackmore, Checklist Macrolepid. British Columbia: 12 (1927), as *colorado* by Blackmore, Checklist Macrolepid. British Columbia: 12 (1927) and as *idaho* by Leighton, Univ. Washington Publ. Biol., 9(2): 63 (1946).

113. Name not homonymous with "*Hesperia ochracea*" as used by Staudinger, Cat. Lepid. Europaische Faunengeb., 1: 35 (1871), Plötz, Stettiner Ent. Ztg., 44: 197 (1883), *etc.* All of these usages refer to *Pamphila ochracea* Bremer, Bull. Acad. Petropolis, 3: 473 (1861), secondarily placed in *Hesperia* by the authors cited above (as well as others). That taxon is now in *Ochlodes*, so the retrieval of the present name from secondary homonymy is mandatory *(International Code of Zoological Nomenclature,* Art. 59c). A knottier problem revolves around *Hesperia serratulae* ab. "ochracea" Reverdin, Bull. Soc. Lepid. Geneve, 2: 153-154 (1912), now referred to the Pyrginae. This name was proposed as an aberrational name, and according to the present Rules (Art. 45c) it is not an available name. Hence, the apparent homonymy is not real at this time. Future workers are cautioned that if the Rules change, *ochracea* Lindsey may have to be replaced at a later date.

114. Name misspelled as "*colarado*" by Watson, Proc. Zool. Soc. London, (1893): 99 (1893).

115. Misidentified as *liberia* by Evans, Cat. American Hesp. . .British Mus., (4): 320 (1955).

116. Misidentified as *columbia* by Evans, Cat. American Hesp. . .British Mus., (4): 321 (1955).

117. Misidentified as *sylvanoides* by Scudder, Mem. Boston Soc. Nat. Hist., 2: 351 (1874), as *zabulon* by W. F. Kirby, Syn. Cat. diurn. Lepid., suppl.: 825 (1877), as *colorado* by W. H. Edwards, Trans. American Ent. Soc., 6: 50 (1877, in part), as *californica* by Skinner, Ent. News, 31: 175 (1920) and as *idaho* by Draudt, *in* Seitz, Grossschmett. Erde, 5: pl. 108g (1924).

118. Misspelled as "*allatus*" by Scudder, 4th Ann. Rept. Peabody Acad. Sci., [1871]: 76 (1872), a fact that establishes the priority of *attalus* over *seminole.*

119. Misidentified as *colorado* by Scudder, Mem. Boston Soc. Nat. Hist., 2: 344, 345, 347, 348 (1874, in part).

120. This name resurrected from obscurity by Evans, Cat American Hesp. . .British Mus., (4): 332 (1955) and is used here with some trepidation. Since the cited type-locality is impossible if this name refers to the Nearctic skipper, a neotype and a new type-locality should be assigned to use this name without question.

121. Butler, Ent. Mo. Mag., 7: 93 (1870) mentioned, but did not describe, a "*Pamphila enys*" with no type-locality or designated type in the synonymy of the present species. It is, therefore, a *nomen nudum* and should be dropped from the synonymy.

122. A number of W. H. Edwards types have been designated by F. M. Brown and L. Miller in a forthcoming paper in the Trans. American Ent. Soc., but the paper has not appeared at the time of the final draft of this paper. The conclusions will be as given herein.

123. Misidentified as "*origines*" by Morris, Syn. Cat. Lepid. N. America: 117 (1862).

124. The homonymy involved in this name is complicated and definitely controversial. As originally proposed, *taumas* would be a valid name, but most of the Fabrician names were derived from classical names and terms. Thaumas (not Taumas) was a minor Greek deity, and the fact that he emended his name in 1793 probably justifies sinking Fabricius' name to Hufnagel's *Papilio thaumas.* Nevertheless, without specific statements to the effect that Fabricius' *thaumas* was an emendation of the earlier *taumas,* can we so assume simply because the Greek deity had the former spelling? This case clearly is one that should be referred to the International

Commission on Zoological Nomenclature. Usage currently would favor suppression of *taumas,* but for more than a century earlier that spelling and name were accepted for the North American skipper presently known as *themistocles.*

125. W. H. Evans at the completion of various parts of his *Catalogues* apparently felt the necessity of assigning all ancient names to known species of Hesperiidae. This name, like several others, was doubtfully assigned to well-known species, thus synonymizing some established names in favor of these older ones. In most cases the older descriptions were vague enough to apply to many present-day species, including ones from the cited type-localities. This practice has been followed by subsequent authors without question, and we are also using the names, but we here wish to call attention to the difficulties in assigning our species to these names with certainty.

126. Name misspelled "*origines*" after Morris, Syn. Cat. Lepid. N. America: 117 (1862).

127. Misidentified as *cernes* by Harris, Rept. Ins. Inj. Veg., 3rd ed.: 316 (1862).

128. Name also proposed by Scudder, Proc. Essex Inst., 3: 172 (1864) and has been credited to Scudder by many subsequent authors. The authorship question was finally settled by F. M. Brown, J. Lepid. Soc., 20: 239-242 (1966).

129. Misidentified as *sylvanoides* by W. G. Wright, Butt. W. Coast: 242 (1905) and as *columbia* by W. G. Wright, Butt. W. Coast: pl. 31, fig. 426 (1905).

130. Evans, Cat. American Hesp. . .British Mus., (4): 329-330 (1955), considered this species and *mystic* to be conspecific. dos Passos, Mem. Lepid. Soc., (1): 10 (1964), separated only *mystic* (unaccountably leaving *dacotah)* and placed the remaining taxa as subspecies of *siris.* Scudder's *sonora* clearly has priority and should be the senior synonym however the taxa are divided. Most hesperiid taxonomists are in general agreement with the treatment we give here.

131. Name misspelled "*margarita*" by Draudt, *in* Seitz, Grossschmett. Erde, 5: 931 (1924).

132. Plötz, Stettiner Ent. Ztg., 44: 206 (1883), introduced [*Hesperia*] *combinata* without description or type data in the discussion of *Pamphila golenia* Möschler. The name is obviously a *nomen nudum* and should be dropped from the synonymy.

133. Misidentified as *aetna* by Scudder, 4th Ann. Rept. Peabody Acad. Sci., [1871]: 79 (1872).

134. Misidentified as *sylvanoides* by Boisduval, Ann. Soc. Ent. France, (2)10: 313 (♀ only, 1852).

135. Misidentified as *vitellius* by J. E. Smith, *in* Abbot and Smith, Nat. Hist. Rarer Lepid. Ins. Georgia, 1: 33 (1797).

136. Misidentified as *jowa* (not *iowa)* by Plötz, Stettiner Ent. Ztg., 45: 287 (1884).

137. Misidentified as *agricola* by Plötz, Stettiner Ent. Ztg., 44: 219 (1883).

138. Misidentified as *nemorum* by W. G. Wright, Butt. W. Coast: pl. 21, fig. 430c (1905).

139. The neotype so designated is the same specimen designated as the lectotype by Tilden, Ent. News, 72: 43 (1971). The specimen, however, was not one of W. H. Edwards' original type-series, and so could not be a candidate for a lectotype. Since no syntype was found, it was decided that the specimen should be the neotype of the name.

140. Misidentified as *milo* by W. G. Wright, Butt. W. Coast: 244 (1905).

141. Misidentified as *nemorum* by Skinner, Ent. News, 11: 414 (1900) and as *pratincola* by W. G. Wright, Butt. W. Coast: pl. 31, fig. 433c (1905).

142. The ♀ specimen that Boisduval, Ann. Soc. Ent. France, (2)10: 315 (1852) described as the ♀ of *pratincola* was actually a ♀ of *nemorum.* The type was selected as the ♂, so Boisduval's "*pratincola*" ♀ is actually a misidentification.

143. Misidentified as *milo* by Draudt, *in* Seitz, Grossschmett. Erde, 5: pl. 181h (1924).

144. Misidentified as *zabulon* by Scudder, Butt. E. U. S. and Canada, 2: 1617 (1889) and others.

145. Misspelled as "*quadraquina*" by W. F. Kirby, Syn. Cat. Diurn. Lepid.: 603 (1871).

146. Misidentified as "*pocahontas*" by Holland, Butt. Book: 364 (1898).

147. Scudder, Butt. E. U. S. and Canada, 2: 1617 (1889) introduced the name "*ogeechensis*" in the synonymy of *zabulon*, attributing it to an Abbot unpublished plate. This name is obviously a *nomen nudum* and as such should be removed from the synonymy.

148. Evans, Cat. American Hesp. . .British Mus., (4): 346 (1955) cites under this species "*bavia*" Butler. This name was never actually proposed and was published by Butler, Ent. Mo. Mag., 7: 93 (1870) without a description and citing Boisduval as the author. The name, therefore, must become a *nomen nudum* and should be dropped from the synonymy.

149. Name misspelled (possibly emended) to "*palatka*" by Scudder, 4th Ann. Rept. Peabody Acad. Sci., [1871]: 80 (1872).

150. Name misspelled as "*pilalka*" by W. F Kirby, Syn. Cat. diurn. Lepid.: 602 (1871).

151. Misidentified as *palatka* by Scudder, Butt. E. U. S. and Canada, 3: 1863 (1889).

152. Name misspelled as "*inconspicua*" by Holland, Butt. Book, (rev. ed.): 388 (1931).

153. This name long has caused confusion among systematists. The name *ruricola* has been revived for this taxon on the basis of a specimen that might be the type that is labelled as "*ruricola*" in Boisduval's hand and is presently in the Carnegie Museum collection, *ex* W. H. Edwards collection. We are accepting this specimen as at least a type-lot specimen, and in any event it is the only one that shows what Boisduval thought he meant when he described *ruricola*.

154. Scudder, Butt. E. U. S. and Canada, 3: 1865 (1889) mentioned a Boisduval Ms. name, "*baeis*", in the synonymy of the present species. There was no formal description and the name should be considered a *nomen nudum* and deleted from the synonymy.

155. Misidentified as *cestus* by W. G. Wright, Butt. W. Coast: 249 (1905).

156. Name misspelled as "*Ephiphyes*" by Evans, Cat. American Hesp. . .British Mus., (4): 386 (1955).

157. Misidentified as *simius* by W. G. Wright, Butt. W. Coast: 249 (1905).

158. Evans, Cat. American Hesp. . .British Museum, (4): 389 (1955), accepted the First Revisor choice of *samoset* over *hegon* made by Scudder, 4th Ann. Rept. Peabody Acad. Sci., [1871]: 54 (1872). W. F. Kirby, Syn. Cat. diurn. Lepid.: 613 (1871) selected *hegon* over *samoset* on the basis of line priority, but his choice is quite adequate for a First Reviser choice, one that predates Scudder's by a year.

159. This name was published in the same month as were both *hegon* and *samoset*. We have been unable to ascertain which of the names has day priority and have retained the traditional synonymy here that is consistent with the present name being junior to the other two. Further research may show this to be an erroneous decision.

160. Name included because it has been recorded from the U. S. and could possibly be taken in southern Texas.

161. Name misspelled as "*oneka*" by McDunnough, Mem. S. California Acad. Sci., 1: 35 (1938).

162. Name misspelled as "*quinquimacula*" by Bell, Bull. Cheyenne Mtn. Mus., 1(1): H-32 (1938).

163. Misidentified as *nereus* by W. G. Wright, Butt. W. Coast: 248 (1905).

164. This name quite possibly predates W. H. Edwards' *eufala*. We are maintaining the usual synonymy in order to minimize confusion. Nevertheless, an appeal to the International Commission on Zoological Nomenclature may be necessary to establish the relative priorities between names.

165. Scudder, Butt. E. U. S. and Canada, 2: 1761 (1889) mentioned "*Hesperia orthomenes* Boisduval MS." in synonymy without a formal description. That name, therefore, is a *nomen nudum* and should be removed from the synonymy.

166. Name misspelled as "*Colpodes*" by Hübner, Verz. bekannt. Schmett., Anz.: 5 [1826].

167. Scudder, Butt. E. U. S. and Canada, 3: 1867 (1889) mentioned "*Hesperia cochles* Latreille MS." in synonymy without a formal description. That name, therefore, is a *nomen nudum* and should be removed from the synonymy.

168. Misidentified as *nereus* by W. G. Wright, Butt. W. Coast: 248 (1905).

169. This species has consistently been misidentified in the older literature as *nero* (Fabricius) *HESPERIA*, Ent. Syst., Suppl.: 433 (1798), a different, though related, species.

170. Name emended (unjustifiably) to "*macalpinei*" by dos Passos, Mem. Lepid. Soc., (1): 1 (1964).

171. Erroneously recorded in the literature as "*smithi* (H. Druce), a Central American congenor.

172. Name originally spelled as "Papilionides".

173. Nomenclature for this group basically follows Ackery, Bull. British Mus. Nat. Hist. Ent., 31: 71-105 (1971), at the species level. Subspecific and other nomenclature is basically that proposed by Ferris, J. Res. Lepid., 15: 65-74 (1976) and elsewhere. The point must here be made about *nomina collectiva* proposed by Bryk and Eisner in many publications, notably in *Parnassiana.* These names, systematized in Zool. Meded., 33: 177-179 (1955), are "non-names" and should be deleted from the lists, even though type-specimens for them do exist. The "names" are no more than descriptive phrases showing how particular specimens differ from a "norm" and are usually not even accompanied by a formal description, the combination of syllables being deemed enough to constitute a description. This philosophy we reject, and while the names so applied to Nearctic specimens will be noted in this section of the *Catalogue,* they will not be used in the body proper. It is hoped that these names will be formally laid to rest by appropriate action of the I. C. Z. N. at some future date.

174. Name misspelled, emended or even described as new under "*Parnassis*" by Hübner, Verz. bekannt. Schmett., (6): 90 [1819]. The problems associated with this name, if name it be, are elucidated by Hemming, Bull. British Mus. Nat. Hist. Ent., Suppl. 9: 345 (1967).

175. Name used twice invalidly by Bryk in 1932 (Parnassiana, 2: 1 and Parnassiana, 2: 20). Neither time was a diagnosis nor a type-species given, and since the name first appeared after 1930, it could not be considered to have been validly proposed.

176. As in the last Note (see above), this name was invalidly cited by Bryk, Parnassiana, 3: 43; 1934).

177. Name misspelled as "*versmanni*" by Bryk and Eisner, Parnassiana, 5: 4 (1937).

178. The following "non-names" were proposed by Bryk or Bryk and Eisner: "ochreocellatus" Bryk and Eisner, 1932, "quincunx" Bryk and Eisner, 1934, and "desubmarginatus" Bryk, 1935.

179. Eisner in his original description mentions *nomina collectiva* "medionigroocellata", "nigroocellata" and "ocelloconjuncta" under this subspecies name. None has ever been formally described for *thor,* and as usual are being deleted from the list.

180. The *nomen collectivum* "extinctoanalis" was proposed by Bryk and Eisner in 1932.

181. W. H. Edwards, Butts. N. America, 1: pl. 4, figs. 1-4 (1871) used the name "*clarius*" for this insect. Eversmann, Bull. Soc. Imp. Nat. Moscou, 3: 539 (1843) named this Palearctic insect, and presumably Edwards was merely following Boisduval, Ann. Soc. Ent. France, (2)10: 283 (1852) in considering *clodius* conspecific with *clarius.*

182. The following *nomina collectiva* apply to this subspecies: "primo + tertiopicta + ornatus" Bryk and Eisner, 1932, "medionigroocellatus" Bryk, 1935, and "medionigroocellatus" Bryk and Eisner, 1937.

183. One *nomen collectivum* was proposed: "flavoocellatus" Bryk, 1935.

184. In 1932, Bryk and Eisner proposed three *nomina collectiva* for this taxon: "medionigroocellatus", "nigroanalis" and "albocentratus".

185. Many authors, apparently following dos Passos, Mem. Lepid. Soc., (1): 32 (1964), have misspelled this name as "*olympianus*".

186. The following *nomina collectiva* proposed for this subspecies: "minusculus" Bryk, 1912, and "quincunx" Bryk, 1914. These names are deleted from synonymy.

187. Through carelessness, Bryk and Eisner, *in* Bryk, Parnassiana, 3: 54 (1935) assigned the type-locality to "Judith Mtns., Montana".

188. The following *nomina collectiva* apply to this subspecies: "quincunx" Bryk, 1915, "fermatus" Bryk, 1921, "melanophorus" Bryk, 1921, and "excelsior" Eisner, 1969.

189. Name misspelled as "*pholus*" by Barnes and Benjamin, List diurn. Lepid. N. America: 6 (1926).

190. Original description specified Berlin Mus. as the repository of the type, but Eisner, Zool. Verh. (81): 24 (1966), claims to have deposited the HT and AT in Rijksmus. Nat. Hist. (Leiden). We leave it to *Parnassius* specialists to finally resolve this problem.

191. Name misspelled as "*hermadur*" by F. M. Brown, Eff and Rotger, Colorado Butts., (4): 234 (1956), and while pointing out this error, dos Passos, Mem. Lepid. Soc., (1): 33 (1964) further compounded the error by spelling it as "*hermador*".

192. Eisner, Zool. Meded., 35: 103 (1957), rather informally applied the *nomen collectivum* "orbifer" to this form. He repeated this designation in Zool. Varh., (81): 25 (1966).

193. Eisner, Zool. Meded., 40: 135-136 (1964), credited this name to F. H. Chermock. Later, he discovered that the Chermock name had not been published (except as a *nomen nudum* by himself), so Eisner adopted the name as his own and described the taxon based on only his own specimens. Apparently Chermock was under the impression that he had validly described *pseudorotgeri* (perhaps *in* Eisner), and his entire "type-series" came to AME along with his collection; Eisner's entire series is in Leiden. The name must be credited to Eisner, and the Chermock series has no standing.

194. Name either emended to or misspelled as "*alaskaensis*" by Eisner, Zool. Meded, 35: 95 (1957). In either event, the original spelling is perfectly acceptable. In this paper, Eisner also refined the type-locality, as shown herein.

195. Name misspelled as "*Laertiades*" by Doubleday, Gen. diurn. Lepid., 1: 5 [1846].

196. Name misspelled as "*philinor*" by W. H. Edwards, List. Spec. diurn. Lepid. N. America: [2] (1884).

197. Name misspelled as "*astionous*" by Stoll, *in* Cramer, Uitl. Kapellen, 4: 3 [1782].

198. This insect has been variously referred to the following Neotropical names for *philenor* (none of which occurs in pure form in the Nearctic): *Papilio acauda* Oberthür, Etud. Ent., 4: 98 (1879); *Papilio nezahualcoytl* Strecker, Proc. Acad. Nat. Sci. Philadelphia, 37: 174 (1885); *Papilio corbis* Godman and Salvin, Ann. Mag. Nat. Hist., (6)3: 357 [1890]("1889"); and *Papilio orsua* Godman and Salvin, Ann. Mag. Nat. Hist., (6)3: 358 [1890] ("1889").

199. Name misspelled as "*polydamus*" by McDunnough, Mem. S. California Acad. Sci., 1: 5 (1938).

200. Species in this genus often referred to the Old World *Graphium* Scopoli, Intro. Hist. Nat.: 433 (1777).

201. Linnaeus' original description of *ajax* referred to at least three insects. He based his description on figures from earlier authors, and in North America alone the insects so figured included *marcellus, glaucus* and *asterius.* For this reason, the name was finally suppressed by the I. C. Z. N. in Opinion 286.

202. F. M. Brown, Trans. American Ent. Soc., 101: 28-30 (1975) declined to establish neotypes or lectotypes for these names, basically because Edwards did not indicate that they were really worthy of retention. Perhaps the names would best be considered *nomina nuda,* but this course of action is untenable because Edwards figured both in his *Butterflies of North America.*

203. This name was very unsatisfactorily proposed. Holland refers to George Edwards' discussion and use of the name in Catesby, Nat. Hist. Uncommon Birds, 3rd ed.: discussion of pl. 34 (1771). No one seems to have accepted Edwards' use of the name as proper, except Holland, and we question whether even Holland's usage of the name can be construed as a proper description.

204. This species is included in the North American fauna chiefly on the basis of old (and perhaps unreliable) records. Nevertheless, attention should be called to its possible occurrence in the Florida Keys.

205. All of the species in this tribe are generally referred to the genus *Papilio,* but

differences in adult and early stage morphology suggest that this is an artificial classification. Therefore, in this work *Papilio* is restricted to the *machaon* complex. This is not a particularly revolutionary classification; the seeds for it were sown by Hübner, elaborated upon by Scudder and readily accepted by modern European authors. Thirty years ago, all "swallowtails" in North America belonged to *Papilio;* more recently the genera *Parides, Eurytides* and *Battus* were accepted. This classification, then, becomes logical in these terms.

206. This species was misidentified as "*asterias*" *[sic.]* by Fabricius, Mant. Ins., 2: 2 (1787) and as "*asterioides*" by Eimer, Artb. Verwantsch. Schmett., 2: 121 (1895).

207. This was one of the species included in Linnaeus' original description of *ajax,* based on Petiver, Gazophylacium: pl. 6, fig. 12 (1709).

208. Misidentified variously as "*troilus*" by Drury, Ill. Nat. Hist., 1: index *et* 22 [1773]; as "*americus*" by various authors; as "*astyanax*" by Scudder, Psyche, 8: 210 (1898) and as "*stabilis*" by dos Passos, Mem. Lepid. Soc., (1): 34 (1964). These are all either totally different species or extra-limital subspecies.

209. Name misspelled as "*asteroides*" by W. H. Edwards, Trans. American Ent. Soc., 6: 10 (1877).

210. Emended from original spelling "*mediocanda*" by Eimer, Artb. Verwandtsch. Schmett., 2: 119 (1895).

211. Originally described as an aberration by J. A. Comstock, Bull. S. California Acad. Sci., 34: 143-145 (1935), this name was raised to species-group status by the Chermocks as shown here.

212. This name, proposed as a "form" of *P. nitra* (*q. v.*), is in some question as to its nomenclatorial status. If, as seems apparent from the original description, the Chermocks meant it to be the Riding Mountain population of *nitra,* then the name could be used specifically with their names as authors; if the name is considered infrasubspecific as proposed, the name will have to date from the first author who used it in a specific sense, possibly Wilson *in* P. and A. Ehrlich, How Know Butts.: 44 (1961).

213. Misidentified as "*asterius*" by Gosse, Canadian Nat.: 184 (1840) and as "mediocanda" by Bryk, Lepid. Cat., 37: 389 (1930).

214. Misidentified as "*machaon*" by Hagen, Canadian Ent., 14: 178 (1882).

215. Name variously misspelled as "*zolicaon*" after Boisduval, Ann. Soc. Ent. France, (2)10: 283 (1852); as "*dolicaon*" by Behr, Stettiner Ent. Ztg., 27: 216 (1866) and as "*zelicayn*" by Skinner, Syn. Cat. N. American Rhop.: 75 (1898).

216. Name proposed conditionally ("=*zelicaon* Lucas?).

217. Emended unjustifiably to "*macdunnoughi*" by dos Passos, Mem. Lepid. Soc., (1): 35 (1964).

218. Name misspelled as "*Caliades*" by dos Passos, Mem. Lepid. Soc., (1): 34 (1964).

219. Name misspelled as "*dophnis*" by Skinner, Syn. Cat. N. American Rhop.: 78 (1898).

220. Name misspelled as "*perithous*" by Hewitson, Trans. Ent. Soc. London, (2)1: 97 (1851).

221. Misidentified as "*oebalus*" by G. R. Gray, Cat. Lepid. Ins. British Mus., 1 *Papilio:* 39 (1852).

222. Name misspelled as "*androgeos*" by W. F. Kirby, Syn. Cat. diurn. Lepid.: 539 (1871).

223. Name misspelled as "*piranthous*" by Weidemeyer, Proc. Ent. Soc. Philadelphia, 2: 148 (1863).

224. Misidentified as "*androgeos*" by Staudinger, Exot. Tagf., 1: 15 (1884). G. R. Gray, Cat. Lepid. Ins. British Mus., 1 *Papilio:* 36 (1852), proposed but did not describe "*polycaon,* var." for this insect.

225. Name misspelled as "*Pterurus*" by Scudder, 4th Ann. Rept. Peabody Acad. Sci., [1871]: 64 (1872).

226. Koch, Stettiner Ent. Ztg., 21: 230 (1860) proposed to use the name *Caudati* with its type-species *turnus* Linnaeus. This name is invalid under Art. 11(f) of the "Code" (generic names proposed in nominative plural).

227. Hemming, Gen. Names Holarctic Butts., 1: 147 (1934), chose to award precedence of *Jasoniades* (misspelled by many authors as "*Jasonides*") over *Euphoeades,* even though the latter name has page priority.

228. This species also formed part of the type series of Linnaeus' *P. ajax,* this time based on a figure by Rajus, Hist. Ins.: 111 (1710).

229. Name misspelled as "*anthilochus*" by Linnaeus, Syst. Nat., ed. 12: 751 (1767).

230. There is another specimen of this singular aberration in the Strecker collection (FMNH), and it was stated to be the type by Gunder, Ent. News, 38: 267 (1927). The matter of the disposition of the type is not yet settled.

231. Name misspelled as "*nitulus*" by Cockerell, Trans. American Ent. Soc., 20: 353 (1893).

232. Name misspelled as "*eurimodon*" by C. and R. Felder, Verh. zool.-bot. Ges. Wien, 14: 313 (1864).

233. Name misspelled as "*chalcus*" by Fabricius, Spec. Ins., 2: 18 (1781).

234. Name misspelled as "*Priamedes*" by Grote, Proc. American Phil. Soc., 28: 26 (1899).

235. *Papilio anchises* Linnaeus, Syst. Nat., ed. 10, 1: 460 (1758), was partially based on this species. Later authors followed Stoll, *in* Cramer, Uitl. Kapellen, 4: 58 [1780], in referring this insect to *anchises,* a butterfly now considered to be in the genus *Parides.*

236. Misidentified as "*isidorus*" by Bates, Trans. Ent. Soc. London, (2)5: 338 (1861) and as "*pompeius*" by W. F. Kirby, Syn. Cat. diurn. Lepid.: 538 (1871).

237. Name misspelled as "*ideus*" by Boisduval, Hist. Nat. Ins., Spec. Gen. Lepid., 1: 299 (1836).

238. Genus misidentified by authors as *Euterpe* Swainson, Zool. Illustr., (2)2(16): pl. 74 (1831).

239. There is some doubt as to the authenticity of this species' occurrence in the U. S. It lives in Mexico in forests with much mistletoe (the larval foodplant), a habitat that is vastly different from those where it was reported. At the same time, the mistletoe-feeding *Atlides halesus* is found where *nimbice* was reported, hence, a larval foodplant must be available.

240. The meticulous files of the Mormon Church show no evidence that Lorquin (the collector of the type) ever visited the vicinity of the Great Salt Lake, nor travelled eastward on the trail from California. During Lorquin's early collecting in the mountains of California the western boundary of "Utah" was along the crest of the Sierras. The nearest salt lake to this boundary is Pyramid Lake, now in northwestern Nevada.

241. Name misspelled as "*marsupia*" by Hagen, Canadian Ent., 14: 177 (1882).

242. Incorrectly spelled as "*terlooii*" in the original description. Skinner, Ent. News, 11: 535, footnote (1900) called attention to this and emended the name following the spelling used by Behr in a communication quoted on the same page as the description.

243. Misidentified as "*lyceas* Godman and Salvin", a species of the Neotropical genus *Archonias,* by Skinner, Ent. News, 11: pl. 2, fig. 28 and page 415 (1900) and by Barnes, Ent. News, 11 ("10"): 331 (1900). Incidentally, the January, 1900 issue of Ent. News was totally confused as to whether it was volume 10 or 11, and the pagination of volumes 10 and 11 are consecutive, so pages 1-304 belong in volume 10, and 305-644 belong in volume 11.

244. Name misspelled as "*Appius*" by W. F. Kirby, Zool. Rec., 9: 377 [1873].

245. Species included in *Pieris* Schrank, Fauna Boica, 2(1): 152, 161 (1801), a related but separate pierine genus (see Higgins, Class. European Butts.: 76-77; 1975).

246. Considered conspecific with Eurasian *P. chloridice* (Hübner) *(Papilio c.,* Samml. europaischer Schmett., 1: figs. 712-713 [1808]) by Higgins and Riley, Field Guide Butts. Britain Europe: 47 (1970).

247. Name originally proposed as replacement for *flava* W. H. Edwards (*q. v.*), but Comstock had no California specimens to use. Later in the paper he compared and figured as "*flavitincta,* var. nov." the British Columbia specimen. This designation is a perfectly adequate designation for the time when it was proposed for *either* a

subspecies, form or aberration.

248. Name misspelled as "*protodin*" by W. H. Edwards, in Hayden, Rept. U. S. Geol. Surv. Terr.: 466 (1872).

249. In this, and many other instances McHenry (J. Res. Lepid., 1: 68; 1962) makes use of the term "*nomen nudum*" for many of the species described by W. H. Edwards. That would be correct if the name were only mentioned in the list at the beginning of the article, but when the description is also included, the name is indeed a very legally proposed one.

250. Misidentified as "*leucodice*" by Boisduval, Ann. Soc. Ent. France, (2)10: 284 (1852).

251. Considered conspecific with Eurasian *P. callidice* (Hübner) *(Papilio c.,* Samml. europaischer Schmett., 1: pl. 115, figs. 2-3 1805) by Higgins and Riley, Field Guide Butt. Britain Europe: 50 (1970). Those authors also considered *P. protodice* to be included, a conclusion not recognized by Higgins, Classific. European Butt.: 77 (1975).

252. Species included in the wholly Palearctic genus *Pieris* Schrank (Fauna Boica, (2)1: 152, 171; 1801), a close relative, but separate (see Higgins, Classific. European Butts.: 72-76; 1975).

253. Name misspelled as "*napae*" by W. H. Edwards, Papilio, 1: 88 (1881).

254. Name often variantly spelled as "*hiemalis*", probably after Scudder, Butt. E. U. S. and Canada: 1191-1192 (1889).

255. The names "*oleracea-hyemalis*" and *oleracea-aestiva*" usually are credited to Harris with dates 1829 and 1850, respectively. Scudder, Butt. E. U. S. and Canada: 1191-1192 (1889), credited "*oleracea-hiemalis*" [*sic.*] and *oleracea-aestiva* to W. H. Edwards, as does McHenry, J. Res. Lepid., 1: 68, 69 (1962). Skinner, Syn. Cat. N. American Rhop.: 62 (1898) credits both names to Harris "1829" and "1850" respectively, a practice usually followed by subsequent authors. Since we can find neither putative Harris citation where indicated, and since no other author before 1881 makes mention of either "*hyemalis*" or "*aestiva*", we are following Scudder in attributing the names to Edwards, as here shown.

256. Misidentified as "*flava*" by W. H. Edwards, Papilio, 1: 98 (1881).

257. This taxon was usually included under *venosa,* a taxon apparently restricted to the foggy coastal region of northern California northward. In the interior valleys appears *castoria,* the name of which is based on the rare summer brood. The commoner spring brood was named *microstriata* by J. A. Comstock (*q. v.*). Dr. Arthur Shapiro has petitioned the I. C. Z. N. to allow the Comstock name to take precedence, but we are inclined to think the application will be denied.

258. Misidentified as "*flava*" by W. H. Edwards, Papilio, 1: 97 (1881).

259. Unjustifiably emended to "*macdunnoughi*" by dos Passos, Mem. Lepid. Soc., (1): 40 (1964).

260. This name, depending on interpretation of the "Code", may be applicable to the summer brood (as here indicated), as a separate slightly different Utah subspecies or as the name of the Rocky Mountain subspecies of *A. napi.* Much depends on the availability of this name in a nomenclatorial "gray area".

261. Name misspelled as "*monusta*" by Cramer, Uitl. Kapellen, 2: 71 [1777].

262. Several reports of the subspecies *raza* Klots, Pan-Pac. Ent., 6: 145 (1930) from the Southwest have been examined in detail. In all cases these reports refer to especially well-marked typical *m. monuste. A. m. raza* is restricted to southern Baja California. It is well figured by Holland, Butt. Book (rev. ed.): pl. 67, fig. 18 (1931).

263. The figure of the type of this taxon does not look like a Florida specimen — it *does* look like specimens from Pará, Brasil. If this is a mislabelling problem, then *crameri* becomes a synonym of *m. monuste,* rather than of *m. phileta.*

264. Hemming, Bull. British Mus., Suppl. 9: 361 (1967) gives [1886] as the date for this taxon. This technically is true for the text, but the plate showing the venation, palpus and antennal club may be considered a graphic description. The legend for these figures reads, "*Phyllocharis* Schatz, *Tagis* Hbn.", thus establishing a type-species.

265. Considered as a subspecies of European *ausonia* (Hübner) *PAPILIO,* Samml.

europaischer Schmett.: figs. 582-583 [1803], by Higgins and Riley, Field Guide Butts. Britain Europe: 51 (1970).

266. There is a question as to whether the use of this name by Lucas antedates the same usage and description by Boisduval, Ann. Soc. Ent. France, (2)10: 286 (1852). Tentatively we give precedence to the Lucas usage and consider that the brief note published by Boisduval, cited above, does not constitute a valid description and should be treated as a *nomen nudum.* Opler, J. Res. Lepid., 5: 191 ([1967]"1966") cited the Boisduval specimen in the USNM as the holotype, probably in error.

267. Name misspelled as *"ausonoides"* after W. H. Edwards, Synop. N. American Butts.: 21 (1872), as *"ausoniedes"* by Hy. Edwards, Pacific Coast Lepid.: 22 (1880), as *"aussonides"* by Elrod and Maley, Bull. Univ. Montana, 30 (Biol.): 32 (1906).

268. Name misspelled as *"crensa"* by Henry Edwards, Papilio, 1: 15 (1881).

269. Misidentified as *"orientalis"* by Verity, Rhop. Palaearctica: pl. 36, fig. 58 [1908].

270. Often included with *creusa* by authors. The present situation follows the arrangement given by Opler, J. Res. Lepid., 5: 185-195 ([1967] "1966").

271. Misidentified as *"andrewsi"* by Powell, Lepid. News, 12: 28 (1958).

272. Barnes and McDunnough, Contrib. Nat. Hist. Lepid. N. America, 3: 60-61 (1916) correctly associated these two Verity names with *hyantis;* later checklisters assigned them (along with *hyantis)* to *creusa.*

273. Misidentified as *"belioides"* by Barnes and McDunnough, Contrib. Nat. Hist. Lepid. N. America, 3: 61 (1916).

274. Name often misspelled as *"Anthocaris".* Although Hemming, Bull. British Mus. Nat. Hist., Suppl. 9: 46 (1967) blames himself for this variant spelling, it was commonly in use from the late 1800's onward. The earliest use we have found is by Morris, Synop. Lepid. N. America: xviii, 20 (1862).

275. Many authors consider this to be a subspecies of *cethura,* mainly on the bases of allopatry and the yellow flush on the upper surface hinted at by both species. Additional studies are needed to establish this conclusion, and the two species are here kept separate.

276. *Anthocharis dammersi* is thought by some to be a hybrid between *A. sara* and *Falcapica lanceolata.* The upper surface is quite like *sara* and the under hindwing like *lanceolata.* Thus far, only two or three specimens have been taken, strongly suggesting that the hybrid hypothesis is correct. Hand pairing of the putative parental species should be undertaken to prove or disprove the hypothesis — it would also suggest whether or not *Falcapica* is a separate genus.

277. Crediting this name to Lucas must be done with some trepidation, since we have no idea as to whether or not the Lucas name has precedence over Boisduval's (*q. v.*) use of it. We are following tradition. The Boisduval "type" is in the UNSM, whereas Lucas' should be expected in the MNHN.

278. This name may be valid for the Andean *"Colias",* but is here being carried as a synonym following traditional usage.

279. Misidentified as: *"europome"* by Haworth, Lepid. Britain, 1: 5 (1802), as *"nastes"* (also misspelled as *"santes")* by Fitch, Trans. New York St. Agric. Soc., 8: 378 (1854), and as *"phicomene"* by Fitch, Trans. New York St. Agric. Soc., 8: 378 (1854).

280. W. H. Edwards' use of "albinic" on the plates of Butts. N. America is clearly not as a form name, hence the names must be credited to Skinner, as here shown.

281. Strecker, Lepid. Rhop. Het., Suppl. 3: 19 (1900) listed three males that he considered to be the types of the name. None are from Palmyra, but from Strecker's statement in the original description, the Montreal specimen in his collection (now in FMNH) could be considered as a syntype, and as the sole remaining one, the lectotype. This specimen is found under the name *"nigrina"* in the Strecker collection.

282. W. H. Edwards' use of "melanic" on plates of Butts. N. America is clearly not as a form name, hence the names must be credited to Skinner, as here shown.

283. Often misidentified by authors as *"kootenai".*

284. Misidentified (and grossly misspelled) as *"philodin"* by W. H. Edwards, Prelim. Rept. U. S. Geol. Surv. Montana: 466 (1872). Since neither a figure nor a description are

given in this case, *philodin* cannot be considered an older name for *eriphyle.*

285. By an incredible printer's error, name spelled as "*enegthenu*" in W. H. Edwards, Rept. U. S. Geol. Surv. Montana: 466 (1872).

286. Misidentified by many authors as *chrysotheme* (Esper) *PAPILIO,* Schmett., 1: 2 (1777), a European species.

287. Examination of hundreds of specimens of *eurytheme* from the West Coast, through the Great Basin and Rocky Mountains to the Mississippi Valley convinces us that it is unwise to divide the species as it is found in the contiguous United States into subspecies. The gamut of variation in any large year-round collection is great and overlaps from one area to another.

288. Ferris, Bull. Allyn Mus., (5): 7-9 (1972) solved the identity of *alberta* in a perfect example of the dangers inherent in basing a conception of a species on paratypic material. The holotype of *alberta* is the common species *eurytheme,* and the holotype of alberta f. "pallidissima" is an albinic female of *philodice vitabunda.*

289. Name supposedly misspelled as "*amphidona*" by W. H. Edwards in 1869, according to dos Passos, Mem. Lepid. Soc., (1): 41 (1964). We have been unable to find this misspelling in any of Edwards' 1869 publications.

290. If one insists that infrasubspecific names must obey the "Law of Homonymy" in the "Code", the albino form of *eurytheme* is without an available name. If, however, one feels that infrasubspecific names are exempted from the "Code", then such *nomina collectiva* as "alba" and "pallida" sprinkled among many different *Colias* are perfectly acceptable. We leave the decision to the individual systematist, secure in the belief that these names will never become available in the sense of the "Code".

291. There is considerable confusion about the place of publication of this name, *barbara* and *chrysomelas* by Henry Edwards. In addition to the citation given is "Proc. California Acad. Nat. Sci.". For most parts of Pacific Coast Lepidoptera these are the same, but no. 24 apparently never appeared in vol. 7 of the *Proceedings.* We have found no evidence that that volume was ever produced, hence these descriptions appeared only in the very rare preprints that were distributed to enough coworkers to be considered published. No. 24 of Pacific Coast Lepidoptera appeared on 5 February 1877.

292. Name misspelled as "*hartfordii*" by many authors.

293. Misidentified as "*keewaydin*" by W. H. Edwards, Butts. N. America, 1: Colias IV, fig. 7 (1876).

294. Name misspelled as "*chryomelas*" by Hy. Edwards, Pac. Coast Lepid., (24): 9 (1877).

295. Misidentified by authors as "*emilia*".

296. Misidentified as "*boothii*" by Boisduval, Gen. *et* Index Meth.: 7 (1840).

297. Gillham and Ehrlich, Trans. American Ent. Soc., 80: 91-117 (1954) studied the Skinner types in the ANSP. On pp. 94 and 98 they discuss the curious situation of authorship and citation priority of *hecla* v. *pallida* and the more curious one for *Argynnis chariclea* v. *gronlandica.* They came to the conclusion that Skinner alone was responsible for the names. We disagree since the plate in Ent. News, 3: opposite p. 49 (1892) carries no indication of an author. Therefore, though Skinner was the editor of the journal, we feel the names in Ent. News must be credited to anonymous, and the dates for the names must be that of the later publication by Skinner and Mengel, Proc. Acad. Nat. Sci. Philadelphia, 44: 156 (1892).

298. Hovanitz, J. Res. Lepid., 1: 267-272 (1963) makes a rather strong case for *boothii* being a natural hybrid between *hecla* and *nastes.* This thought was not new with Hovanitz having been proposed at least as far back as by Avinoff, *in* Holland, Butt. Book, (rev. ed.): 299 (1931). Hovanitz, however, consistently referred to *boothii* as a species, despite its apparent instability in the perimeters of its range. We therefore continue to consider it a valid species, bearing in mind that it may not be a good genetic species.

299. Name misspelled as "*alaskae*" by McDunnough, Mem. S. California Acad. Sci., (1): 8 (1938).

300. Misidentified as "*anthyale*" by Möschler, Stettiner Ent. Ztg., 61: 186 (1870).

301. Misidentified as "*pelidne* var." by Strecker, Lepid. Rhop. Het.: 69 (1873).

302. Name misspelled as "*interier*" by W. F. Kirby, Syn. Cat. diurn. Lepid., Suppl.: 859 (1877).

303. The name "*solivaga*" was introduced without a description by W. H. Edwards, Trans. American Ent. Soc., 6: 17 (1877). This name is obviously a *nomen nudum.* F. M. Brown, Trans. American Ent. Soc., 99: 74-75 (1973) showed that this name, published in the synonymy of *interior,* was actually Henry Edwards' manuscript name for *harfordii.*

304. Name often misspelled as "*Meganostoma*" after W. F. Kirby, Syn. Cat. diurn. Lepid.: 489 (1871).

305. Name frequently misspelled by subsequent authors as "*caesonia*"; Martyn, Psyche: pl. 2, figs. 5-6 (1797) misspelled the name as "*sesonia*".

306. Strecker, Syn. Cat. N. American Macrolepid.: 80 (1878), referred to "*Papilio caroliniana,* Petiv. Gazoph., p. 2, t. 7 (1767)" under "*Meganostoma* [*sic.*] *caesonia* [*sic.*]". If this reference were true, then Petiver's name would take precedence over *cesonia* (Stoll). Most references to Petiver apply to the pre-Linnaean (1702-1711) printings of the *Gazophylacium.* That work was reprinted in 1764 containing "156 Copperplates, with Latin and English names" in two volumes. This publication could validate *Papilio caroliniana* Petiver as the earliest name for the Common Dog-face, *cesonia* (Stoll), unless the I. C. Z. N. has invalidated the 1764 publication of the *Gazophylacium.* We have seen neither acceptance nor denial of the validity of that work and feel that a ruling should be made (if it already has not been) on the point, a ruling that will affect the history of the name of this species.

307. Name misspelled as "*rosea*" by Skinner, Syn. Cat. N. American Rhop.: 67 (1898). This misspelling does not affect the availability of Röber's subsequent use of the spelling (*q. v.*) for another, but similar form.

308. Misidentified by many authors as the Old World genus *Gonepteryx* Leach, *in* Brewster's Encyc. Edinburgh, 9(1): 127 [1815], along with many variant spellings. It apparently was this confusion that led dos Passos, Mem. Lepid. Soc., (1): 45 (1964) to consider *Rhodocera* Boisduval and Leconte, Hist. Lépid. Amerique sept.: 70 [1830], with *Anteos.*This is not acceptable, since Boisduval and Leconte in a footnote (p. 70) state,

> "1. M. Leach, dans les Mémoires de la Société d'Edimbourg, avait donné à ce meme genre le nom de *Gonopteryx* [*sic.*]; mais, comme il a trop de rapports avec celui de *Gonoptera* établi par M. Latreille dans les Noctuélides, nous avons cru devoir lui substituer celui de *Rhodocera.*"

Thus it is clear that *Rhodocera* was proposed as a replacement name for *Gonepteryx* (though that name was misspelled), wrongly thought to be preoccupied. Hemming, Bull. British Mus. Nat. Hist. (Ent.), Suppl. 9: 396 (1967) credits Blanchard, Hist. Nat. Ins., 3: 431 (1840) with selecting a type-species, but since he mentions "seven species", it is clear that he selected a type from Boisduval, Hist. Nat. Ins. Spec. gén. Lépid. 1: 597-604 (1836). It is interesting to note that Boisduval in 1836 took full credit for *Rhodocera,* even though he apparently shared it with Leconte in their paper.

309. The recent tendency to use *lacordairei* (*q. v.*) in a subspecific sense does not seem warranted. We can find no constant differences between Jamaican and Mexican specimens.

310. Misidentified as "*ecclipsis*" by Cramer, Uitl. Kapellen, 2: 47-48 [1779].

311. Members of this genus have often erroneously been placed in Old World *Catopsilia* Hübner, Verz. bekannt. Schmett., (7): 98 [1819].

312. An albinic ♀ was identified as "*albarithe*" by Kimball, Lepid. Florida: 34 (1965) in error. That taxon is West Indian and does not occur in mainland North America.

313. Name misspelled (or emended) as "*aricia*" by Godart, Enc. Meth., 9: 94 [1819].

314. Boisduval credited this name to Roger, and it was based on specimens from both men's collections. We have not seen the papers Roger may have published and suspect that *agarithe* was simply a Roger manuscript name.

315. Brown originally believed that Gulf Coastal material belonged to the Florida subspecies, but the material from Texas and eastern coastal Mexico is best assigned to

a. agarithe.

316. Name misspelled as "*neocipris*" by F. M. Brown, American Mus. Novitates, (368): 18 (1929).

317. Name misspelled as "*cypris*" by F. M. Brown, American Mus. Novitates, (368): 17 (1929).

318. Name misspelled as "*Krocogonia*" by Hemming, Bull. British Mus. Nat. Hist. (Ent.), Suppl. 9: 475 (1967).

319. Hemming, Bull. British Mus. Nat. Hist. (Ent.), Suppl. 9: 242 (1967) suggested that *Colias lyside* is the same as *Papilio castalia* Fabricius, 1793. However, Riley, Field Guide Butts. W. Indies: 131 (1975) pointed out that the Fabrician insect is the Jamaican subspecies of *Appias drusilla* (Cramer), 1777.

320. Some forms consistently misidentified by authors as "*castalia*", a name that actually refers to *Appias drusilla* subspecies from Jamaica.

321. Name unnecessarily and incorrectly emended to "*Heurema*" by Agassiz, Nomencl. Zool., (12): 181 (1847).

322. *Papilio delia* of Cramer is clearly a junior homonym and had to be replaced. Godart and Hübner both proposed replacement names in [1819], and the problem remains as to the relative priority of *Pieris daira* Godart and *Eurema demoditas* Hübner, and it yet has to be solved. In 1928 Klots, Ent. Americana,(n. s.)9: 99-171 decided on *daira*, but on the basis of wrong dates. Hemming, Bull. British Mus. Nat. Hist. (Ent.), Suppl. 9: 182 (1967) also discusses the problem and decides informally on *daira* because it is better known than is *demoditas*. This expedient has not solved the problem, except in a temporary manner, and a thorough review of the species and its taxonomy would be most welcome.

323. Misidentified as "*elathea*" by some authors.

324. Name often misspelled as "*palmyra*" by authors.

325. We wonder if this subspecies actually occurs in Florida. It may be that the so-called "*palmira*" are only forms of typical *daira* in our area, even though no true *daira* are to be found in the Antilles as forms of *palmira*. Much additional analysis of this complex needs to be done before a thorough knowledge of these insects can be gained.

326. The correct name for this taxon may well be *eugenia* (Wallengren) *TERIAS*, Wiener Ent. Monats., 4: 33 (1860) if the two entities are shown to be the same. For the moment we are retaining the more "traditional" *lydia*, pending an analysis of material referable to both taxa.

327. Name misspelled as "*pallida*" by dos Passos, Mem. Lepid. Soc., (1): 46 (1964).

328. Boisduval, Hist. Nat. Ins., Spec. gén. Lépid., 1: 655 (1836) described *mexicana* from a mixed series, the males of which were later the basis of C. and R. Felder's, Reise . . .Freg. Novara, Lepid. Rhop., 2: 200 [1865] description of *boisduvaliana*. Effectively, then, the Felders established a new nominal species *(boisduvaliana)* and selected at least a candidate for a lectotype of another *(mexicana)*.

329. Misidentified as "*gratiosa*" by Reakirt, Proc. Ent. Soc. Philadelphia, 2: 359 (1863).

330. Name misspelled as "*Pyristia*" by Scudder, Proc. American Acad. Arts Sci., 10: 261 (1875).

331. Southern Florida material is near, but not the same as, the Antillean subspecies *euterpe* (Ménétriés) *TERIAS*, Bull. Soc. Nat. Moscou, 5: 299 (1832). This subspecies is not known to occur in the U. S.

332. Misidentified as "*tenella*" by Godman and Salvin, Biol. Cent.-Americana, Lepid. Rhop., 2: 165-166 (1889) and as "*perimede*" by Klots, Ent. Americana, (n. s.)9: 140 (1928).

333. Cowan, Ent. Rec., 91: 147 (1979) presents a very knotty nomenclatorial problem. Swainson, Cab. Cyclop., 129: 87, 89 (1840) described a family-group taxon based on his genus *Licinia*, a synonym of *Enantia* (*q. v.*). On both pages above it was spelled as "Lycaeninae", though in the index to the work it was correctly spelled as "Liciniini"! The name so prosed has met with complete indifference with the exception of a single citation (in passing) by Trimen, S. African Butts., 3: 3 (1889). Because of the possible confusion and the general acceptance of Dismorphiinae, a proposal for the suppression

of both "Liciini" and "Lycaeninae" of Swainson is being submitted to the I. C. Z. N. We can here only wish it the best!

334. Species in this genus have often been included by authors in *Dismorphia* Hübner, Verz. bekannt. Schmett., (1): 10 (1816) and *Leptalis* Boisduval, Hist. Nat. Ins., Spec. gén. Lépid., 1: 412-414 (1836), not Dalman, Anal. Ent.: 40 (1823). These genera, while related to *Enantia*, are separate.

335. We were tempted to leave this species off the North American list, but a recent specimen is recorded by McGuire and Rickard, Annot. Checklist Butts. Bentsen-Rio Grande Valley St. Pk. . .: [12] (1974) from the park on 3 September 1972. These are reliable workers, so the appearance of this species within our borders is confirmed. We do not, however, know whether the specimen represents the nominate South American subspecies of (more likely) the Mexican-Central American *jethys* (Boisduval) *LEPTALIS*. Hist. Nat. Ins., Spec. gén. Lépid., 1: 423 (1836).

336. Name proposed as "Lycaenida".

337. Name proposed as "Spalgiinae"; also see **Note 1.**

338. Hemming, Bull. British Mus. Nat. Hist., Ent. Suppl. 9: 267-268 (1967) gives a concise history of the misapplication of this name to the Blues (Polyommatinae). Much of this confusion lay in the rejection by Scudder, Proc. American Acad. Arts Sci., 10: 209 (1875), of the Curtis restriction of the type-species.

339. Species often placed in the genera *Heodes* Dalman, K. Svenska Vetensakad. Handl., 37: 63 (1816) and *Chrysophanus* Hübner, Verz. bekannt. Schmett., (1): 18 (1818).

340. Frequently misidentified as "*hypophlaeas*".

341. Scudder, Butts. E. U. S. Canada, 2: 998 (1889) resurrected a Harris manuscript name, "*bacchus*" and listed it in the synonymy of *americana* without comment. Such publication in synonymy is invalid.

342. There is a conflict as to whether Harris or Morris first proposed this name. All evidence suggests that it was Harris, as here shown.

343. Name misspelled as "*obsoleta*" by Barnes and McDunnough, Checklist Lepid. Bor. America: 15 (1917).

344. Name misspelled as "*bulvus*" by Anonymous, Zool. Rec., 65 (Ins.): 240 (1929).

345. Name misspelled as "*fieldeni*" at least as far back as Dyar, Bull. U. S. Natl. Mus., (52): 41 (1902).

346. Name unjustifiably emended to "*macdunnoughi*" by dos Passos, Mem. Lepid. Soc., (1): 61 (1964).

347. Guérin-Méneville and Boisduval described this species under the same name within a few months of one another. Precedence is given Guérin-Méneville's usage, following F. M. Brown and Field, J. New York Ent. Soc., 78: 179-180 (1970).

348. Scudder, Butts. E. U. S. Canada, 2: 985 (1889) listed in synonymy "*amicetus* Boisduval MS." This name, of course, was not published, even though dos Passos, Mem. Lepid. Soc., (1): 61 (1964) and others have tried to use it in a subspecific manner.

349. Name misspelled as "*halloides*" by McDunnough, Ent. Rec., 26: 201 (1914).

350. Name misspelled as "*penrosae*" by F. M. Brown, Eff and Rotger, Colorado Butts., (3): 158 (1955).

351. Name emended from original spelling of "*del-sud*".

352. Name originally spelled as "Theclanae". Name still is applicable in all its combinations [see **Note 1**].

353. Name misspelled as "*chrysalus*" by Scudder, Bull. Buffalo Soc. Nat. Sci., 3: 113 (1876).

354. Name misspelled by many authors as "*minyas*".

355. Name proposed, but a *nomen nudum*, by Hübner, Verz. bekannt. Schmett., (7): 80 [1819], as "*dolichus*".

356. We are accepting Clench's *estesi* as a subspecific name, rather than dos Passos' elevation of Gunders ab. "corcorani" because Clench proposed it as a "normal form", and at the time this was done, his designation is tantamount to creation of a subspecies.

357. Name misspelled as "*moesites*" by Draudt, *in* Seitz, Grossschmett. Erde, 5: 798 (1920).

358. Name misspelled as "*acadia*" by F. M. Brown, Eff and Rotger, Colorado Butts., (3): 129 (1955).

359. Name misspelled as "*souhegon*" by McDunnough, Mem. S. California Acad. Sci., 1: 24 (1938).

360. W. F. Kirby, Syn. Cat. diurn. Lepid.: 654 (1871) mentions the name "*T. fabricii* Scudder" and gives a non-existent citation from Proc. Boston Soc. Nat. Hist. This calamitous error was corrected by Kirby, Syn. Cat. diurn. Lepid., Suppl.: 775 (1877), but he still insisted on crediting the name to Scudder. In any event, *fabricii* W. F. Kirby is a *nomen nudum* and should be deleted from Nearctic lists.

361. This name placed in the synonymy of *falacer* on the basis of evidence presented by Gall, J. Lepid. Soc., 30: 214-218 (1976). We are placing the name here with some question, since we feel that having a series of both "species" from a single female's progeny would be even more telling.

362. This subspecies was originally reported as "*T. strigosus liparops*" by Fletcher, Trans. R. Soc. Canada, (4): 210 (1903). It was later realized that having a subspecies recorded from Manitoba and Georgia with intervening populations of another subspecies was untenable, therefore *fletcheri* was described, based on these considerations and other morphological ones.

363. The name "*tetra*" W. H. Edwards was long applied to this species until F. M. Brown and Clench, *in* F. M. Brown, Trans. American Ent. Soc., 96: 34-36 (1970) discovered that rather than applying to *S. auretorum, tetra* must instead supplant the well-known, but junior, *adenostomatis* (Hy. Edwards, *q. v.*)

364. This species-name may not strictly be a synonym of *azia,* since the former beast is from "Mexico", whereas this one is from "Brasil". There are other relatives of *azia,* at least one of which antedates *azia,* in southern South America. Should these not prove to be conspecific, the name *nipona* would not apply in our area.

365. Name misspelled as "*juica*" in Zool. Rec., 3: 470 (1867).

366. Clench, Bull. M. C. Z. Harvard Coll., 94: 225 (1944) erroneously stated that the type-locality was "Silver Lake, [Utah]", no doubt based on a statement to the effect by Barnes and Benjamin. This erroneous type-locality designation was rectified as shown by Brown with Clench's help.

367. Originally spelled as "*sheridonii*", the name was effectively emended when Edwards mentioned that at Lt. Carpenter's request he was naming this taxon for Lt. Gen. P. H. Sheridan.

368. Name originally misspelled as "*Mitouri*", but it was corrected in the "Errata" section. The name was also spelled as "*Mitura*" by Rye, Zool. Rec., 8: 350 (1872).

369. Name misspelled as "*aubumiana*" by Morris, Synops. Lepid. N. America: 101 (1862).

370. *Thecla augustus* W. Kirby was thought to be a homonym of *Hesperia augustus* Fabricius, Ent. Syst., 3: 275 (1793). For many years both names were united in the genus *Thecla,* and as such, *T. augustus* W. Kirby was replaced by *T. augustinus* Westwood, and the very common Nearctic "Elfin" has long been known under the latter name. At the present time, however, *Hesperia augustus* is considered to be in the genus *Rekoa* Kaye, Trans. Ent. Soc. London, [1904]: 198 (1904), and a synonym of the type-species, *Papilio meton* Cramer, Uitl. Kapellen, 3: 15 [1779]; whereas *Thecla augustus* W. Kirby is assigned to *Incisalia.* The simple expedient of dividing the monstrous genus "*Thecla*" in the New World has cancelled any secondary homonymy that may have existed.

371. Name misspelled as "*schryneri*" in Zool. Rec., 75: 316 (1939).

372. Name misspelled as "*iris*" by Morris, Treat. Ins. N. England Inj. Veg.: 97 (1862).

373. Name misspelled as "*nephon*" by Westwood, Gen. diurn. Lepid., 2: 486 [1852], and as "*nipha*" by Morris, Cat. Lepid. N. America: 12 (1860).

374. Members of this genus often classified in *Panthiades* Hübner, Verz. bekannt. Schmett., (5): 79 [1819].

375. dos Passos, Mem. Lepid. Soc., (1): 56 (1964) lists *Thecla daraba* Hewitson, Ill. diurn. Lepid. Lyc.: 105 (1867) and *T. beroea* Hewitson, Descr. Lyc.: 14 (1868) as

synonyms of this species. These names are currently applied to separate, but related, South American insects.

376. Name misspelled as "*hugo*" by Westwood, List Lepid. Ins. British Mus., (2): 32 (1847).

377. L. Miller, J. Lepid. Soc., 32: 139-140 (1978) detailed particulars on a specimen of this species in the Strecker collection that was labelled as "*hugon*" which may have been the source of records of *E. endymion* from Florida. Riley, Field Guide Butts. W. Indies (1975) does not record *endymion* from there.

378. Name originally spelled as "Polyommatidae".

379. Name misspelled as "*exile*" by Scudder, Bull. Buffalo Soc. Nat. Sci., 3: 124 (1876).

380. Name misspelled as "*Syntauruchoides*" by Sharp, Zool. Rec., 41: 251 [1905].

381. Often misidentified as *catalina* (Fabricius), a totally different species.

382. Often misidentified as *gaika* (Trimen), an African relative.

383. Often misidentified as *ammon* (Lucas), a totally Antillean relative.

384. Godman and Salvin, Biol. Cent.-Americana, Lepid. Rhop., 2: 104 (1887) state that the female type of *Lycaena zachaeina* Butler and H. Druce, Cist. Ent., 1: 104 (1872) actually applied to this species. The Butler and Druce name is not applied to this insect because of the effective restriction of *zachaeina* to the male and a subspecies of *H. ceraunus*

385. This name, long forgotten, is resurrected for the North American populations that are near to, but not conspecific with, the Old World *C. argiolus* (Linnaeus), Syst. Nat., ed. 10, 1: 483 (1758).

386. Name misspelled as "*gazora*" by Holland, Butt. Book, rev. ed.: 256 (1931).

387. In addition to the genus *Philotes*, the following genera have been applied by various authors: *Pseudophilotes* Beuret, Mitt. Ent. Ges. Basel, (n.f.)8: 100 (1958) and *Shijimiaeoides* Beuret, Mitt. Ent. Ges. Basel, (n.f.)8: 100 (1958). Both of these genera are Palearctic.

388. The single species in this genus was referred to *Philotes* by most authors, but Shields, Bull. Allyn Mus., (19): 1-10 (1974) placed it in *Zizeeria*, a member of the Lampidini.

389. Older authors placed the species in this genus in the Palearctic genus *Nomiades* Hübner, Verz. bekannt. Schmett., (5): 67 [1819].

390. Members of this species-group within *Glaucopsyche* have often been placed in the Palearctic genus *Scolitantides* Hübner, Verz. bekannt. Schmett., (5): 68 [1819].

391. Name misspelled as "*rhea*" by W. P. Comstock and Huntington, J. New York Ent. Soc., 71: 51 (1963).

392. Name misspelled as "*lygdamas*" by W. H. Edwards, Butts. N. America, 1: Lyc. 1: 2 (1869) and as "*lygdarnus*" by Scudder, 4th Ann. Rept. Peabody Acad. Sci., [1871]: 33 (1872).

393. Name unjustifiably emended to "*macdunnoughi*" by dos Passos, Mem. Lepid. Soc., (1): 68 (1964).

394. Name misspelled as "*sinepuncta*" by McDunnough, Mem. S. California Acad. Sci., 1: 38 (1938).

395. The subspecies was long misidentified as *behrii* (W. H. Edwards) *LYCAENA*, Proc. Acad. Nat. Sci. Philadelphia, 14: 224 (1862), a taxon now considered a form a *G. xerces (q. v.)*.

396. Name misspelled as "*xerxes*" by Boisduval, Ann. Soc. Ent. Belgique, 12: 16 (1869).

397. Long considered to be *Lycaena kodiak* W. H. Edwards, Trans. American Ent. Soc., 3: 20 (1870), that name is now know to apply to a *Plebejus saepiolus (q. v.)* population as explained by F. M. Brown, Trans. American Ent. Soc., 96: 379-383 (1970).

398. This name was long considered to be a subspecies of *L. melissa (q. v.)*, until the taxonomy was settled by Nabokov, Psyche, 50 (1944).

399. Name misspelled as "*sublivent*" by F. M. Brown, Eff and Rotger, Colorado Butts., (3): 161 (1955).

400. This subspecies was long known as *scudderi* (W. H. Edwards) *(q. v.)*, but *scudderi* is a subspecies of *argyrognomon*.

401. Name often misspelled as "*Plebeius*".

402. Name misspelled as "*calcas*" by McDunnough, Mem. S. California Acad. Sci., 1: 27 (1938).

403. Name misspelled as "*Vaccinia*" by Forster, Mitt. Münchner Ent. Ges., 28: 112 (1938).

404. This species is usually known either as *glandon* (de Prunner) *PAPILIO*, Lepid. Pedemont: 76 (1798) or as *aquilo* (Boisduval) *LYCAENA*, Icon. Hist. Lépid. d'Europe: pl. 12, figs. 7-8 (1833). Both specimens are Palearctic, according to Higgins, Classific. European Butts.: 151 (1975), and *franklinii* is the next available name solely for North American species.

405. The name Riodinidae, though a junior synonym, is so widely used that an appeal is being lodged with the International Commission on Zoological Nomenclature to give it precedence over the three names listed below. It is with the anticipation that this action is approved that the name Riodinidae is being used here for the family (see Cowan, Bull. Zool. Nomen., 29: 206-208 [1973] ("1972") for details).

406. Name misspelled as "*Psadilopteris*" by Stichel, Lepid. Cat., 41: 675 (1930).

407. The synonymization of *sergia* to *abreas* is by no means certain. Godman and Salvin in their original description of the former refer to *abreas*, suggesting that they were either familiar with Edwards' type or were basing their decision on their own interpretation of what Edwards had in mind. At this late date it is impossible to know the status of *abreas vs. sergia*, and we follow the same course that dosPassos, Mem. Lepid. Soc., (1): 50 (1964) did, but with the reservations herein mentioned.

408. Name misspelled as "*Calephilis*" by W. F. Kirby, Zool. Rec., 7: 391 [1871], and as "*Callephelis*" by Grote, Canadian Ent., 5: 144 (1873).

409. Genus misidentified by many older authors as *Nymphidium* Fabricius, Mag. f. Insktenk. (Illiger), 6: 286 (1807), a very difficult Neotropical riodinid genus. Later, Boisduval and Leconte, Hist. . .Lépid. . .Amerique Sept.: 130 [1833], introduced the name "*Nymphidia*", attributing the name to Fabricius. The Boisduval and Leconte name cannot be considered a new name, whether the change in spelling was a conscious emendation of Nymphidium or not, and the name should not be used to replace *Calephelis*.

410. This species redescribed under same name by G. R. Gray, *in* Griffith, Cuvier's Anim. Kingd., 15: 58 (1832).

411. Misidentified by many older authors as *Papilio caeneus* Linnaeus, Syst. Nat., ed. 12, 1(2): 796 (1767), a member of the genus *Emesis*.

412. The type-specimen of *virginiensis* and *pumila* are one and the same, assuming that the putative type in the USNM is that. The separate subspecific names given by dos Passos, Mem. Lepid. Soc., (1): 51 (1964) therefore cannot be valid. Should *virginiensis* be found to need a second subspecies, the name *louisiana* Holland would apply for the more western segregate.

413. The name "*geda* Boisd., Mss." was mentioned by Scudder, Bull. Buffalo Soc. Nat. Sci., 3: 102 (1876) in the synonymy of *borealis* without further comment. Although this name has been carried in checklists since, it is, of course, a *nomen nudum* and as such is deleted from the American list.

414. Powell, *in* Howe, Butt. N. America: 262 (1975) places this name with *rawsoni* as a junior synonym. His conclusions are not borne out by our examination of the types of *guadeloupe* and this name is returned to the synonymy of *australis*.

415. Prior to the description of *muticum*, many midwestern specimens were misidentified as *borealis* (Grote and Robinson). These records, of course refer to *muticum*.

416. Misidentified as *Calephelis argyrodines* (Bates), Ent. Mo. Mag., 3: 154 *(CHARIS)* (1866) by McAlpine, *in* P. and A. Ehrlich, How Know Butts.: 249 (1961).

417. Usually misidentified as *C. domitianus* (Fabricius) and occasionally attributed to the Nearctic fauna.

418. Specimens have variously been misidentified as *C. ino* Godman and Salvin or as

C. domitianus (Fabricius), both extralimital.

419. Misspelled as "*Lasaea*" by Glaeser, Cat. Etymol. Coleop. Lepid.: 297 (1887).

420. Variously misidentified as *L. sula* Staudinger, *L. narses* Staudinger and *L. sessilis* Schaus, never as the correct species.

421. Misspelled as "*Lynmas*" by Scudder, Proc. American Acad. Arts Sci., 10: 207 (1875).

422. Emended unjustifiably to "*Polystichthis*" by Agassiz, Nomencl. Zool. (4to ed.), Index univ.: 304 (1846).

423. The male cotypes of *E. ares* (W. H. Edwards) also refer to this species, hence the confusion of the names within the complex.

424. This homonymous genus was mentioned under a new name, *Polystigmata*, in an anonymous publication. The name is attributed to R. Gray, but no description is given. Inasmuch as the publication was anonymous, we feel that the name was stillborn and is a *nomen nudum*.

425. Many specimens of this subspecies have been identified as *mejicanus* (Behr) *(q. v.)*, but the distinctions between *mejicanus* and *duryi* are discussed in F. M. Brown, Trans. American Ent. Soc., 94: 120-121 (1968).

426. Name misspelled as "*druryi*" by Stichel, Gen. Ins., 112B: 288 (1911).

427. Name misspelled as "*vergulti*" after Anonymous, J. Zool. Ent. (Pomona Coll.), 9: 136 (1927).

428. This subspecies included as possible for North America on the basis of phenotypically similar specimens from California and Arizona recorded by Powell, *in* Howe, Butts. N. America: 269 (1975). We seriously doubt that this subspecies should be included in the North American lists.

429. Our species have generally been placed in the Old World genus *Libythea* Fabricius, Mag. f. Insektenk. (Illiger), 6: 284 (1807) or its synonym *Hypatus* Hübner, Syst.-alp. Verz.: 3 [1822]. The characters given by Michener in his original description of *Libytheana* demonstrate the correctness of his separation of the Old World and New World material.

430. Name misspelled as "*carinata*" by Burmeister, Descr. phys. Rep. Argentina, 5: 195 (1878).

431. Despite the fact that the Abbot figure (or the modification of it in Paris!) was supposedly of a Georgia specimen, the illustration seems to represent a Cuban species. We normally would totally exclude this name from the American lists were it not for a report of its having been taken in Texas (a very unlikely locality) by J. R. and R. L. Heitzman, J. Res. Lepid., 10: 284-286 (1973). We suspect that these specimens, as well as the one that Abbot figured, represent genetic "throwbacks" toward *motya*, yet that taxon is not truly in the American fauna.

432. Members of this genus have often been placed in the related, but separate, genus *Dione* Hübner, Verz. bekannt. Schmett., (2): 31 [1819].

433. Listed in the literature as *moneta* Hübner by Doubleday, Gen. diurn. Lepid., 1: 148 [1848].

434. Species in this genus have been referred to the related genus *Colaenis* Hübner, Verz. bekannt. Schmett., (2): 32 [1819] prior to the description of the present taxon.

435. Name variously misspelled: "*phaerusa*" after Linnaeus, Mus. Ludovicae Ulricae: 293 (1764); "*phetusa*" after Linné-Houttuyn, Nat. Hist., (1)11: 331 (1767); "*pharusa*" after Meinecke, Beschäft. Berliner Ges. Naturf. Freunde, 2: 431 (1776); "*phoerusa*" Latham and Davies, Fauna Indica, ed. 2, 3: 25 (1795) and "*pherusa*" after Doubleday, List. Spec. Lepid. Ins. British Mus., 2: 65 (1847).

436. Name misspelled as "*julia*" after Fabricius, Ent. Syst., 3: 180 (1793).

437. Name misspelled as "*alcyonia*" after Herbst and Jablonski, Naturs. Ins. Schmett., 4: 91 (1790) and as "*alcyonea*" after Verloren, Cat. Syst. Lepid. Cramer, 1: 86 (1837).

438. Prior to its description, this taxon was variously misidentified as *cillene* (Cramer) *PAPILIO*, Uitl. Kapellen, 3: 38 [1780]; *nudeola* (Stichel) *COLAENIS*, Gen. Ins., (63): 12 (1907) and as *carteri* (Riley) *COLAENIS*, Entomologist, 59: 243 (1926).

439. The name must be attributed to Riley even though it is a change in status of *Colaenis julia delila* f. "moderata" Stichel, Gen. Ins., (63): 12 (footnote) (1907). This taxon was described from "Honduras", and the type, if it still exists, may be in ZMHU.

440. The name *delila* (Fabricius) *PAPILIO,* Syst. Ent.: 510 (1775) has been used for this subspecies. It is, however, a subspecies from Jamaica. The name was misspelled as "*delia*" by dos Passos, Mem. Lepid. Soc., (1): 97 (1964).

441. This genus has undergone a great deal of nomenclatorial confusion. [Illiger] 41, Allgem. Lit. Ztg. (Halle), [1807]: 1180-1181 (1807) applied the name *Mechanitis* to *dianasa* Hübner. Since his usage of *Mechanitis* would have upset existing nomenclature unduly, the I. C. Z. N. (Op. 232) rejected the Illiger name in 1954. The name *Eueides* itself has undergone a great many modifications: "*Eieides*" after Hübner, Index exot. Lepid.: [3] (1821); "*Evides*" after Agassiz, Nomencl. Zool., Index: 147, 153 (1846); "*Eucides*" after Ménétriés, Enum. Corp. Anim. Mus. Imp. Acad. Sci. Petropolitana, Lepid.: explanation of plates (1855); "*Eveides*" after Boisduval, Consid. Lepid. Guatemala: 35 (1870); "*Eurides*" after Godman and Salvin, Trans. Ent. Soc. London, [1880]: 130 (1880); "*Eisides*" after Scudder, Nomencl. Zool.: 119 (1882) and as "*Euides*" after Hayward, Rev. Soc. Ent. Argentiniensis, 4: 34 (1931).

442. This species often misidentified as *cleobaea* Geyer, *in* Hübner, Zutr. z. Samml. exot. Schmett., 4: figs. 601-602 [1832].

443. Name variously misspelled as "*Helicona*" after Guérin-Méneville, Icon. Regne Anim. Cuvier, 3: 472 [1844] and more commonly as "*Heliconia*" after Godart, Enc. Meth., 9: 203 [1819].

444. Name misspelled as "*Sycionia*" by Hübner, Verz. bekannt. Schmett., Anz.: 7 [1826].

445. Variant spellings have been the rule, rather than the exception, in this species. The initial spelling was "*charithonia*" (p. 757), but on page [1339] the spelling is "*charitonia*". W. P. Comstock and F. M. Brown, American Mus. Novitates, 1467: 1-2 (1950) selected the latter spelling as the preferred one, based on the fact that contemporaries and Linnaeus himself (in succeeding publications) used "*charitonius*". Strict adherance to priority would dictate the use of "*charithonius*", but the actions of various revisers, formal and informal, seem to go against this principle. The matter is far from "solved", but the majority of workers today use the "*charitonius*" spelling.

446. The sheer numbers of synonyms, forms and aberrations of *H. erato* make their inclusion in a Nearctic list lengthy and of little value. The proper place for such a synonymy is in a Neotropical catalogue, and therefore, these are not given here.

447. Name misspelled in various ways by many authors. A complete listing of these *lapsi calami* is given by Hayward, Opera Lilloana, 23: 225 (1973), with the exception of "*Euptneta* W. H. Edwards, cited by dos Passos, Mem. Lepid. Soc., (1): 96 (1964).

448. Scudder, Butts. E. U. S. Canada, 1: 519 (1889) cites "*Papiio miriamne* Abbot", based on a manuscript name on one of Abbot's plates. Since this name was listed only in the synonymy of *claudia* and was not described, it is a *nomen nudum* and is best here deleted from the synonymy and ignored.

449. Name misspelled by many authors as "*daunus*".

450. Misidentified as "*bellona*" by Fabricius, Spec. Ins., 2: 111 (1781).

451. Name misspelled as "*nitrocris*" by dos Passos, Mem. Lepid. Soc., (1): 92 (1964).

452. Name misspelled as "*caerulescens*" by McDunnough, Mem. S. California Acad. Sci., 1: 14 (1938).

453. Misidentified as "*nokomis*" by W. H. Edwards, Butts. N. America, pl. Argynnis 4 (1873).

454. dos Passos, Mem. Lepid. Soc., (1): 92 (1964) lists the subspecies *wenona* dos Passos and Grey, American Mus. Novitates, (1370): 11 (1947), from our area. In fact, to date only the type pair from Cerro Potosi, Nuevo Leon, Mexico have been captured. No specimens have yet been taken in the U. S., and the name should be dropped from the Nearctic list.

455. Name misspelled as "*adraste*" by W. F. Kirby, Syn. Cat. diurn. Lepid.: 160 (1871).

456. Name misspelled as "*adianthe*" by Barnes and McDunnough, Check List. Lepid. Bor. America: 8 (1917).

457. Name misspelled as "*shellbachi*" by dos Passos, Mem. Lepid. Soc., (1): 94 (1964).

458. Scudder, Proc. Boston Soc. Nat. Hist., 17: 19 (1875) published the name *lais* in the synonymy of "*Argynnis triclaris*", a member of *Proclossiana.* dos Passos and Grey, J. New York Ent. Soc., 63: 95-96 (1957) considered the Scudder name to be validly proposed, suggested a "neotype" and a "type-locality" for it, and then proposed a new name to replace the Edwards use of *lais.* Publication in synonymy, however, does not constitute a description, so *Speyeria helena* dos Passos and Grey, J. New York Ent. Soc., 63: 95-96 (1957) becomes an objective synonym of *lais* (W. H. Edwards) and shares its type-specimen.

459. dos Passos and Grey, American Mus. Novitates, (1370): 22 (1947), restricted the TL to "Salt Lake City, Salt Lake Co., Utah" on several bases, not the least of which was the name — "*mormonia*" [see **Note 240**]. The exhaustive files of the Mormon Church, however, give no indication that the collector, Lorquin, was ever in Utah. At the time of the collection of the type, however, "Utah" extended west to the crest of the Sierras. The nearest salt lake to that boundary is Pyramid Lake, now in northwestern Nevada, and it is possible that Lorquin could have journeyed this far without being cited in the Mormon records.

460. dos Passos and Grey, American Mus. Novitates, (1370): 22 (1947) credited the subspecies name to McDunnough, but the McDunnough description was of an aberration. Therefore, the subspecies must be credited to those who raised it from intrasubspecific status.

461. Name misspelled as "*eurynomes*" by W. H. Edwards, Trans. American Ent. Soc., 4: 345 (1873).

462. Various authors have included these species in the Palearctic genera *Brenthis* Hübner, Verz. bekannt. Schmett., (2): 30 [1819], or *Argynnis* Fabricius, Mag. f. Insektenk. (Illiger), 6: 283 (1807).

463. The interrelationships and possible clinal tendencies of this subspecies and *alaskensis* are not known and need to be investigated to determine whether or not *nearctica* is a necessary name.

464. Scudder, Proc. Boston Soc. Nat. Hist., 17: 19 (1875) used the name "*lais*", published in synonymy, for this taxon, thus creating the confusion mentioned in **Note 453** for *Speyeria atlantis lais* (*q. v.*).

465. Hemming, Entomologist, 66: 275 (1933) claimed that *alticola* Barnes and McDunnough was preoccupied by *Argynnis alticola* Sushkin and Tsetverikov, Horae Soc. Ent. Rossiae, 38: 18 (1907). These names are not primary homonyms, and at the present time the Barnes and McDunnough name applies to a Rocky Mountain *Clossiana* and the Sushkin and Tsetverikov name is a Palearctic *Brenthis.* At the time of Hemming's description, both names were in use in the latter genus. It is necessary, therefore, to revive the Barnes and McDunnough name from the synonymy, even if it is eventually placed in another genus. It is not a "*Brenthis*".

466. Variously placed by authors in the related, but separate, genera *Argynnis* Fabricius, Mag. f. Insektenk. (Illliger), 6: 283 (1807), *Brenthis* Hübner, Verz. bekannt. Schmett., (2): 30 [1819], and *Boloria* Moore, Lepid. Indica, 4: 243 [1900].

467. Name misspelled as "*myrinus*" by Herbst, Natursyst. Ins. Schmett., 9: 178 (1798), and as "*myrinna*' by Gruber, Jenaische Zts., 17: 479 (1884).

468. Misidentified as "*myrina*" by Martyn, Psyche, 5: pl. [1], figs. [2]-[3] (1797).

469. *Brenthis gibsoni* and *lehmanni* were both proposed in the genus *Brenthis* to replace *Argynnis alaskensis* Lehmann, *in* Seitz, Grossschmett. Erde, 5: 424 (1913), believed to be preoccupied by *Brenthis alaskensis* Holland, Ent. News, 9: 383 (1900). At the time of these propositions, and considerably later, the American authors were correct. Under the present classification, however, *alaskensis* Holland is not congeneric with *alaskensis* Lehmann and both must be used.

470. While this name was proposed as a new one and a different holotype was designated, it is clear that Barnes and McDunnough meant the name as a replacement

for *alaskensis* (Lehmann) *ARGYNNIS,* in Seitz, Grossschmett. Erde, 5: 424 (1913). As a replacement name, *gibsoni* must take the type of *alaskensis,* and the USNM specimen is a pseudotype.

471. Name misspelled as "*kriemeld*" by McHenry, J. Res. Lepid., 3: 240 (1964).

472. Name emended to "*lucki*" from "*l½ucki*" by McHenry, J. Res. Lepid., 3: 240 (1964). In theory this emendation is wrong, since an umlauted vowel is to be transliterated into that letter plus the letter "e". Therefore, the proper formation of the name would have been "*luecki*", but the Draft Code of Zool. Nomencl.: Art. 32d suggests that these incorrect emendations of diacritical marks be allowed to stand.

473. Skinner was the editor of Ent. News at the time that the plate and its caption were produced, but there is nothing to substantiate that he was responsible for the name in that publication. Later that year, Skinner and Mengel, Proc. Acad. Nat. Sci. Philadelphia, 44: 156 (1892), used a different name proposed by another author for a different taxon. This then suggests that Skinner was not the author of *groenlandica,* and perhaps the identity of the author is actually lost in antiquity.

474. Although the type locality is not cited in the original description, the specimen, taken by Derby, is labelled "Rocky Mts.", which means those mountains N and W of Banff, Alberta.

475. Name misspelled as "*ranieri*" in the original description, but listed as being named for and taken on Mt. Rainier, hence the emendation.

476. Name misspelled as "*carichlea*" by Zetterstadt, Ins. Lapponica, (5): 899 (1839), as "*churcilea*" by Johansen, Rept. Canadian Arctic Exped., 3K: 36k (1921) and as "*churchilea*" by dos Passos, Mem. Lepid. Soc., (1): 90 (1964).

477. The type is labelled as from "W side Smith Sound, Grinnelland". There is no Smith Sound on the Grinnell Peninsula of Devon Island, Northwest Territories, but there is one on SE Ellesmere Island. We suspect the specimen came from the latter locality.

478. Misspelled as "*butlerii*" after W. H. Edwards, Trans. American Ent. Soc., 11: 273 (1884).

479. Name proposed as "Melitaeidi".

480. The confusion of the name *pola* is well resolved in F. M. Brown, J. Lepid. Soc., 19: 197-211 (1965).

481. See F. M. Brown, J. Lepid. Soc., 19: 197-211 (1965) for W. H. Edwards' eventual confusion of *arachne* and *minuta.* This in turn lead to other confusions. Scott, using Texan material, thought he was raising *minuta* but raised instead *arachne.* True *minuta* from *eastern* Texas may now be extinct.

482. Usually misidentified as *pola* (Boisduval) *MELITAEA,* Ann. Soc. Ent. Belgique, 12: 56 (1869). This misidentification was based on Oberthür, Etudes Lépid. Comp., 9(2): 81; fig. 2188 (1914), whose specimen, now in USNM, was accepted by subsequent authors. But *pola* was described from "Sonora" and is in CM collection. It refers to no known Nearctic insect.

483. This genus and others under this note are often considered as subgenera of *Chlosyne* Butler, Cist. Ent., 1: 38 (1870). Higgins, Trans. R. Ent. Soc. London, 112: 381-467 (1960) has subdivided the group, but not entirely along the lines of the present divisions.

484. Specimens that closely resemble nominate *theona* are taken occasionally in the Rio Grande Valley and across N. Mexico. In each instance they are associated with other locally dominant subspecies, hence, we do not believe that this Central American subspecies should be credited to the SW United States.

485. This taxon often found flying with *l. wrighti,* but at other times it occurs in pure colonies. At best it is a weak subspecies.

486. This species is an extremely variable one. In the tension zones between subspecies almost any of the named forms from the full range of the species may be found. There is a broad zone of contact across northern Mexico and southern New Mexico where *l. crocale* and *l. adjutrix* interbreed. dos Passos' (Mem. Lepid. Soc., (1): 80; 1964) inclusion of "*pretona* Boisduval, 1870", described from Guatemala, probably

refers to a sport produced by such interbreeding. Higgins, Trans. R. Ent. Soc. London, 112: 410 (1960), considered *pretona* a synonym of the Central American *quehtala* (Reakirt, 1866). We accept this viewpoint and delete *pretona* from the Nearctic list.

487. Name misspelled as "*refuscens*" by Higgins, Trans. R. Ent. Soc. London, 112: 413 (1960).

488. *Melitaea albiplaga* has page priority over *M. definita.* However, Barnes and McDunnough, Checklist Lepid. Bor. America: 9 (1917), as first revisors, selected the name of the usual morph over that of an aberration for the entire species.

489. The name *ismeria* (Boisduvla and Leconte) *MELITAEA,* Hist. Lépid. Amerique sépt., 168 [1833], has been a nomenclatorial headache. The plate (46) of it was redrawn from an Abbot drawing and seems to be an attempt to combine the features of *gorgone* and *harrisii.* The name is probably best considered a *nomen dubium,* as did Klots, Field Guide Butts. E. U. S. Canada: 95 (1951). A discussion of the entire "*ismeria* problem" is found in F. M. Brown, Bull. Allyn Mus., (16): 1-12 (1974).

490. Misidentified as "*nycteis*" by W. H. Edwards, Proc. Acad. Nat. Sci. Philadelphia, [1861]: 161 (1862).

491. Misidentified as "*harrisii*" by Skinner, Syn. Cat. N. American Rhop.: 16 (1898), who in turn credits the misdetermination to W. H. Edwards, Canadian Ent., 2: 163 (1870).

492. In conjunction with his description of *Limnaecia,* Scudder used the name *harrisii* in a rather cavalier manner. *L. harrisii* was listed as the type-species, and later *Melitaea harrisii* was mentioned as the type. Both names are *nomina nuda,* and a strictest interpretation of the "Code" would require that *Limnaecia* also be considered a *nomen nudum,* as well as a junior homonym of *Limnaecia* Stainton, Suppl. Tineid. Pterophor.: 4 (1851).

493. This name has been consistently attributed to J. D. Gunder, but the original description unequivocally is signed by Norman R. Gunn. Inasmuch as this is the only description done by Gunn, it is important to set the record straight. Gunn was born on 27 June 1913 and died on 27 July 1930, so he was not yet seventeen when the description was published. He was only a month past that age when he suffered a fatal heart attack while bathing during a trip to Tacoma, Washington. Biographical information is based on a note by Sternitzky, Pan-Pac. Ent., 7: 19 (1930).

494. Higgins, Trans. R. Ent. Soc. London, 112: 425 (1960), notes a specimen in CM bearing a manuscript label "*whitneyi* Behr type" and a printed label reading "Sier. Nev. Cal." These are probably Henry Edwards labels on a specimen he had compared with Behr's type and given to W. H. Edwards. It is known that Behr neither marked a type, nor sent one to correspondents, and this can hardly be an exception. Other so-called "types" are in the Strecker collection (FMNH), and these have at least as much claim to validity.

495. Name properly emended to the present form from the original "*vallismortae*" by dos Passos, Mem. Lepid. Soc., (1): 84 (1964).

496. There has been great confusion about the authorship of this name. It first appeared in Mead, Wheeler Surv., 5: 760 (1875) as an Edwards MS. name. The descriptive sentences gave no diagnoses, actually stating that males were indistinguishable from those of *palla.* That usage is not proper, and the mention of *calydon* by Mead is a *nomen nudum.* The dos Passos, Mem. Lepid. Soc., (1): 84 (1964) credit of the name to Strecker, Syn. Cat. Macrolepid.: 126 (1878) is also untenable. The "description" in question is a paraphrasing of Mead's report. Cataloguers since the first use of the name have ignored the name, credited it to Mead or stated that Strecker was the author. Barnes and Benjamin, Ent. News, 36: 119 (1925) merely voiced their view that *calydon* was not sufficiently distinct from *palla* to warrant recognition. Holland, Butt. Book, rev. ed.: 125 (1931), adequately described *calydon* (though attributing it to Mead) and figured the "types". For these reasons we concur with the opinion of Higgins, Trans. R. Ent. Soc. London, 112: 424-425 (1960), in recognizing Holland as the (albeit unwilling) author of the name.

497. The "original description" of "*Chlosyne (Charidryas) acastus dorothyi* [*sic.*]" is

most unsatisfactory. The figures strongly suggest a variant of *sterope;* the range is about the same and the larval food plant, a restricted one, is the same. There is some question about the legality of the original description; the various articles of the "Code" that are in volved are: 11c (satisfied), 12 (does not apply), 13 (satisfied), 16 (satisfied), 45 (not satisfied). Art. 45(b) reads: "Basis.- each taxon of the species group is objectively defined only by reference to its type-specimen." Since Bauer did not designate a type-specimen, nor are either of the illustrations identified as a "type", there seems to be no objective definition of the name *dorothyi* [*sic.*]. An advisory opinion, however, by Dr. Curtis Sabrosky, a member of the I. C. Z. N., indicated that he would accept the name as validly proposed. Therefore, the name is here listed pending a clarification on the availability of the name from the I. C. Z. N.

498. Illustrations referred to in the original desciptions by J. A. Comstock of "gunderi" and "newcombi" did not appear until published in Comstock, Butts. California; pl. 36, (1927).

499. The material dissected by Higgins and the basis of his genitalic diagnosis of *Dymasia* was supplied by FMB. It was from southern Arizona, and therefore was the subspecies *chara.* Since Higgins considered that there were insufficient differences between *dymas* and *chara* to consider the last a subspecies of the first, he was correct in his assignment of the first as the type of the genus. In the interests of precision and in the light of studies by Nearctic specialists, we have felt it better to designate the type-species of *Dymasia* as we have.

500. This genus often classified as a subgenus of *Phyciodes* Hübner, Verz. bekannt. Schmett., (2): 29 [1819]. In other instances it has been considered synonymous with *Eresia* Boisduval, *in* Roret's Suites à Buffon, Nat. Hist. Ins., Consid. gén., 1 (Lépid.): pl. 11 (=7b), fig. 8 [1836]. The present arrangement follows an *in press* paper by L. G. Higgins awaiting publication by the British Mus. (Nat. Hist.).

501. The inclusion of *Eresia leucodesma* C. and R. Felder, Wiener Ent. Monats., 5: 103 (1861), is based on *Eresia cincta* W. H. Edwards, Proc. Ent. Soc. Philadelphia, 2: 502 (1864), erroneously listed as from "Texas, Florida". The type of *cincta* probably came from either of the two contemporary routes across Central America — southern Nicaragua or central Panama. A discussion of this name is given by F. M. Brown, Trans. American Ent. Soc., 92: 428-431 (1966). The original description of *cincta* does not fit *texana,* with which Edwards and others later confused it.

502. Although 20th Century checklisters have considered Edwards' use of "hiemalis" and "aestiva" as proposals of scientific names, Edwards himself and other 19th Century checklisters did not. Both the 1884 Edwards and the 1898 Skinner lists use the terms "winter form" and "summer form", rather than their Latin equivalents (Dyar's 1902 checklist ignores them). These names should probably be considered in the same light as Bryk and Eisner's *nomina collectiva* [see **Note 173**].

503. Misidentified as "*tharos*" by W. G. Wright, Butts. W. Coast: 165 (1905) and as "*marcia*" by W. G. Wright, Butts. W. Coast: 165-166 (1905).

504. Misidentified as "*nycteis*" by W. G. Wright, Butts. W. Coast: 197 (1905).

505. Name misspelled (or unjustifiably emended) as "*tharossa*" by Godart, Enc. Meth., 9: 289 (1819) and as "*pharos*" by Harris, Rept. Ins. Inj. Veg. (Flint's ed.): 289 (1862).

506. Recently several students of North American butterflies have come to the conclusion that sibling species masquerade under the name "*tharos*". One is supposedly single brooded, the other multivoltine. One is supposed to have white antennal annuli, the other with the annuli yellow to fulvous. Nothing has yet been published about these "species", and we are continuing to list the proposed names as though all of a single species, which may yet prove to be the case.

507. W. Kirby's name *selenis* may refer to this subspecies. Kirby's usage of the name was considered to be homonymous with that of Eversmann, but the former was described in *Melitaea* and the latter in *Argynnis;* they are very different insects. We suspect that W. F. Kirby, Syn. Cat. diurn. Lepid.: 172 (1871) which placed the names as homonymous, Eversmann's having priority, may have led dos Passos to ignore the Kirby name. *M. selenis* may prove to be a perfectly good name for northcentral

Canadian *tharos,* should such a name be necessary. We leave the final disposition to a future reviser.

508. Name misspelled (or unjustifiably emended) to "*morphea*" by Godart, Enc. Meth., 9: 289 (1819).

509. This name is another proposed by Bauer in a rather unsatisfactory manner. In this instance the type-locality is given, but no types are designated, nor are they figured.

510. Misidentified as "*tharos*" by Boisduval and Leconte, Hist. Lépid. Amerique sépt.: pl. 47, fig. 5 (♀ only) [1833].

511. Previous to the 1917 Barnes and McDunnough checklist, all workers considered *pratensis* to be the species name with *campestris* a synonym of it. All workers have considered the two names to apply to the same species. Barnes and McDunnough, Contrib. Nat. Hist. Lepid. N. America, 3: 95 (1916), pointed out two things: *campestris* has line priority on p. 86, and that Behr apparently had what he considered to be male and female of the same insect. Behr, however, noted *campestris* from "marshy places", presumably on the borders of San Francisco Bay, and *pratensis* on "grassy hillsides" around San Francisco. Herein lies the problem: are the two actually representatives of the same subspecies, or is true *campestris* now another extinct San Francisco butterfly? As for the use of *pratensis* in preference to *campestris,* the "First Reviser" tenet overwhelmingly gives precedence to *pratensis.* Strecker, Syn. Cat. N. American Macrolepid.: 121 (1876), transferred the names from *Melitaea* to *Phyciodes,* this action constituting revision.

512. Misidentified as "*orseis*" by W. G. Wright, Butts. W. Coast: 166 (1905).

513. Unjustifiably emended to "*macdunnoughi*" by dos Passos, Mem. Lepid. Soc., (1): 82 (1964).

514. Misidentified as "*orseis*" by W. G. Wright, Butts. W. Coast: 166 (1905).

515. This name somewhat more adequately indicated than most other Bauer names in Howe's book. At least *herlani* has a holotype indicated and figured, hence, it has a type-locality. Other prerequisites of publication are at best minimally fulfilled.

516. Misidentified as "*pratensis*" by W. G. Wright, Butts. W. Coast: 166 (1905).

517. Many of the same objections raised earlier [see **Note 492**] on admission of "*Chlosyne acastus dorothyi*" apply to this insect: vague description, no type(s) selected, no type-locality. Because of Dr. Sabrosky's advice, we are mentioning the names, but we seriously doubt that they are more than *nomina nuda.*

518. We have not examined Skinner's type and here follow two highly reputable and competent taxonomists, James McDunnough and Cyril dos Passos, in placing *arida* as a synonym of *thebais* Godman and Salvin. It does not apper to be the same insect described by Bauer and commented upon in the preceding Note.

519. Name misspelled as "*glaciales*" by McDunnough, Mem. S. California Acad. Sci., 1: 18 (1938).

520. The genus *Occidryas* is seriously in need of careful study. Gunder, Pan-Pac. Ent., 6: 1-8 (1929), brought some order to the chaos by establishing genitalic clues to what he considered to be species. These we consider groups of subspecies. It will take years of careful breeding experiments and studies of expanded chromosomes to establish what are species and what are subspecies. The genus is in such a state of genetic flux that a hundred or more segregates equally as good as those already named could be; this of course would be ridiculous to do. In the following listing we have arranged the names of the so-called subspecies in alphabetic sequence to emphasize the need for careful and thorough study before a biological sequence can be attempted. Even a geographic arrangement would be misleading. The synonymy listed is basically "traditional".

521. The validity of *eurytion* has been questioned. The early cataloguers and checklisters (W. H. Edwards, 1884, Skinner, 1898, Dyar, 1902, Barnes and McDunnough, 1917) made no mention of the name, but later writers have credited the name to Mead. The argument has been that Mead's "original description" is too weak to be useful, but if this were true, many names now in currency should be replaced. The

Mead description reads: "This species is found associated with *Nubigena* [*anicia*] in Colorado, but is much rarer, and does not seem to range to quite so great elevations. The most obvious point of distinction from *Nubigena* is that the yellow spots of the latter are largely obscured in *Eurytion* by fulvous." If this description is considered unsatisfactory, then the name must be credited to Holland, Butt. Book, rev. ed.: 120; pl. 57, figs. 15, 16 (1931), where he figured Mead's "types". Any collector with extensive experience with *O. anicia* knows that there is a perfect intergradation from the distinctive low elevation *capella* through *eurytion* and *brucei* to something very like *anicia* above treeline. Probably the best name for this assemblage is *eurytion*, assuming the acceptability of that name; if it is not accepted, then use *brucei* for the grouping.

522. Earlier checklisters considered *hermosa* to be a full species. Gunder, Pan-Pac. Ent., 6: 1-8 (1927) placed *hermosa* in *anicia* on the basis of a specimen he thought was topotypical (Camp Roosevelt, Roosevelt Dam, Arizona), calling the specimen the "type". That specimen cannot be the type which was collected by Wright and labelled as "southern Arizona". This has, however, become the accepted interpretation of the name. The dos Passos, Mem. Lepid. Soc., (1): 87 (1964), transfer of the name to *chalcedona* is an error based on his belief that *hermosa* was the same as *klotsi* dos Passos (*q. v.*), the latter being indeed a good *chalcedona* sympatric with *hermosa*.

523. Bauer, *in* Howe, Butts. N. America: 177 (1975), credits himself with authorship of this name: perhaps he had intended to describe this entity, but the Emmels' description was the first valid usage of it.

524. There is a perplexing question of authorship involved with this name. Comstock's original description is of "*Euphydryas colon* ab. *huellemanni*", as is the plate explanation, but typed under the specimen on the plate itself is "*E. colon huellemanni*". Elsewhere in the volume infrasubspecific names are expressed as bi- or trinominals. Our feeling about these names is that they should be ignored except in the infrasubspecific sense. However, in the case of *huellemanni* what Comstock thought was an aberration has proven to be a valid subspecies, not of *colon* but of *chalcedona*. Evidently the first to recognize this in print was dos Passos, so the authorship is as given for the subspecies.

525. Name misspelled as "*mcglashanii*" after Gunder, Ent. News, 39: 305 (1928). This is interesting since the beast was named after the McGlashan family, father Charles and daughter Ximena, who collected professionally in and around Truckee. Rivers emended the name in a "modern" way at the time of the original description, and Gunder and all who followed him erred in spelling the man's name correctly, but the insect's name incorrectly.

526. The usual references for *colon* and *perdiccas* are Papilio, 1: 45-46 and 44-45 (1881), respectively. These were published in April, 1881; the references cited appeared in January of the same year and have priority.

527. Misidentified as "*baroni*" by W. G. Wright, Butts. W. Coast: pl. 18, fig. 156b (1905).

528. Name unjustifiably emended to "*macdunnoughi*" by dos Passos, Mem. Lepid. Soc., (1): 86 (1964).

529. Although no type is designated in either text or explanation for plates, we must assume that the models for Howe's figures are from the type-lot. Accordingly, and with some question as to whether the name is validly proposed, we here select the male figured on plate 45 (figure 11) as the lectotype.

530. Through a printer's error, name misspelled as "*perdiceas*" in W. H. Edwards, Papilio, 1: 44-45 (1881). The error was later corrected (Papilio, 1: 242; 1881).

531. This conglomeration of taxa is in need of serious study. It may represent two or more sibling species. The type of *editha* further must be compared with material from the Tuolumne Valley as well as with those from the area suggested by Bauer, *in* Howe, Butts. N. America: 190 (1975) to fix the most likely type-locality for the taxon *editha editha*.

532. Although this name was based on an aberrant specimen, it was so handled in the original description that the name is available in the unlikely event that one is needed.

533. This name synonymized rather reluctantly. Should a need arise for separating high altitude forms in the Yellowstone area from lower elevation *editha, montanus* McDunnough is available.

534. Name misspelled as "*thielsonensis*" by McDunnough, Mem. S. California Acad. Sci., 1: 17 (1938).

535. Through printer's error, name misspelled as "*nubigeria*" by W. H. Edwards, Synops. N. American Butts.: 15 (1873).

536. Name misspelled as "*tiogoensis*" by McDunnough, Mem. S. California Acad. Sci., 1: 17 (1938).

537. Name variously emended unjustifiably and misspelled as "*phaetaena*" by Hübner, Verz. bekannt. Schmett., (2): 28 [1819]; as "*phaetoneta*" by Godart, Enc. Meth., 9: 288 [1819]; as "*phaedon*" Herrich-Schäffer, CorrespBl. zool.-min. Ver. Regensburg, [1865]: 105 (1865); and as "*phaetona*" by many subsequent authors.

538. The name "*Grapta marsyas*" W. H. Edwards Trans. American Ent. Soc., 3: 16-17; 1870 has been applied to this taxon. The type of *marsyas* was lost, but it cannot apply to the Nearctic butterfly; when one compares Edwards' figure Butt. N. America, 2: pl. Grapta II, figs. 5-8 with European *P. c-album* (Linnaeus), it becomes obvious that Edwards' types were mislabelled. These findings are discussed in detail by F. M. Brown, Trans. American Ent. Soc., 93: 332-335; 1967 and by dos Passos Trans. American Ent. Soc., 95: 153-156; 1969.

539. The name "*virescens* Scudder" is mentioned often in checklists. The name was mentioned by Scudder (Bull. Buffalo Soc. Nat. Sci., 2: 252; 1876) in the synonymy of *faunus* without further description or comment. This does not constitute a description, and the name is therefore deleted from the Nearctic listing.

540. There is a great confusion regarding this name in the literature: the ♂ syntype is of the present species, whereas the ♀ is of *P. faunus rusticus*. Pending the unravelling of this problem, the name is here used as that of the present species, with the full sense of awareness that "*silvius*" of authors may have to be renamed at a later date.

541. Scudder, Bull. Buffalo Soc. Nat. Sci., 2: 252; 1876 mentions "*thiodamas* Scudder" in the synonymy of this species without description or indication. This is a *nomen nudum*, and as such is deleted from the American listing.

542. Name misspelled as "*grogne*" by Fabricius, Mant. Ins., 2: 50; 1787.

543. Members of this genus have variously been placed in *Vanessa* Fabricius, Mag. f. Insektenk., 6: 281 (1807) and *Aglais* Dalman, K. Svenska VetenskAkad. Handl., [1816]: 56 (1816), both related, but separate genera.

544. Hübner mentioned the genus *Hamadryas*, with its type of *Papilio io* Linnaeus, Syst. Nat., ed. 10, 1: 472 (1758) in the *Tentamen*. This pamphlet was considered unavailable for zoological nomenclature, and this particular usage of *Hamadryas* was placed on the *Official Index of Rejected. . .Names in Zoology* as name no. 82.

545. There is a question as to which use of *Scudderia* has priority. The Stal name was published under only a year date, whereas Grote's usage dates definitely from August. We are here following general usage and accepting Scudder's Butts. E. U. S. Canada, 1(3): 387; 1889 statement that the Stal name was published in April, 1873.

546. Scudder, Butts. E. U. S. Canada, 1(3): 379 (1889) mentions "*Vanessa pocahontas* Harris MS." in the synonymy of *j-album*. This name, never further mentioned by Scudder, is a *nomen nudum* and as such is deleted from the listing here.

547. Name misspelled as "*hippolita*" by Skinner, Syn. Cat. N. American Rhop.: 22 (1898).

548. Members of this genus frequently placed in the genera *Nymphalis* Kluk, Zwierz. Hist. nat. Pocz. Gospod, 4: 86 (1802) and *Vanessa* Fabricius, Mag. f. Insektenk., 6: 281 (1807), both closely related, but separate, taxa.

549. Name misspelled as "*melbirti*" by W. H. Edwards, *in* Hayden, Rept. U. S. Geol. Surv. Montana: 466 (1872).

550. A number of authors have suggested the conspecificity of *milberti* and the Palearctic *urticae* (Linnaeus), Syst. Nat., ed. 10, 1: 477 (1758). There are strong similarities between the two insects, and *milberti* may indeed be a Nearctic *urticae*. It is

interesting that F. Scott and Wright, J. Lepid. Soc., 26: 116 (1972) report a thoroughly authentic *urticae* from Nova Scotia that was imported from England in a packing crate. Pending further definitive information, we prefer to consider *milberti* a separate species at this time.

551. Field, Smithsonian Contribs. Zool., 84: 1-105 (1971) has revised the group and separated *Vanessa* into that, *Cynthia* and *Bassaris* Hübner, Samml. exot. Schmett., 2: pl. 24 [1821]. The presence of naturally occurring hybrids between "*V.*" *atalanta* and "*C.*" *annabella* (Dimock, J. Lepid. Soc., 27: 274-278; 1973) strongly suggests the congenericity of these taxa. Accordingly, the generic separations recommended by Field are not adopted here.

552. Name misspelled as "*Pyrameides*" by Hübner, Verz. bekannt. Schmett., Anz.: 7 [1826].

553. Name misspelled as "*hunteri*" by Hübner, Verz. bekannt. Schmett., (2): 19 [1819].

554. Name spelled this way in index, validating "*iole*" of Cramer, Uitl. Kapellen, 1: 17-18 [1775] which was proposed without generic assignment. *Papilio iole* would have been preoccupied by *P. iole* [Denis and Schiffermüller], Ankundung [*sic.*] eines Syst. Werkes Schmett. Wiener Gegend: 172 (1775).

555. Long misidentified as *carye* (Hübner, [1812], Samml. Exot. Schmett., 1: pl. 45, figs. 1-2), the differences have been pointed out by Field, Smithsonian Contrib. Zool., 84: 56-61 (1971). Accordingly, *carye* (and its variant spellings *caryae* and *charie)* are deleted from the Nearctic listing.

556. The complicated synonymy of this insect is detailed by Field, Smithsonian Contrib. Zool., 84: 10-16 (1971). Most of these problems are in the nature of misidentifications and misapplication of names; hence, the interested reader is referred to Field's exhaustive treatment without further comment.

557. The name *Siproeta* Hübner, Samml. exot. Schmett., 2: pl. [48] [1823] has occasionally applied to the present insects. The former is a very different genus from the present one.

558. This name was originally misspelled as "*Hipolymnas*" by Hübner, Verz. bekannt. Schmett., (3): 45 [1819] but was corrected by the same author later on the page. Hübner consistently used the present spelling with the exception of this single *lapsus calami* throughout the remainder of his writings.

559. Misidentified as *H. bolina* (Drury, Ill. exot. Ent., 1: 26-27 [1770]).

560. This genus is frequently lumped with the related *Precis* Hübner, Verz. bekannt. Schmett., (3): 33 [1819]. The two genera are separable on structural grounds and are here not considered congeneric.

561. Name misspelled as "*Dunonia*" by Mabille, Bull. Soc. Zool. France, 1: 203 (1876).

562. The name *negra* C. and R. Felder, Reise. . .Fregatte Novara, 3: 339 [1867] is often cited as a synonym of *coenia*, following W. F. Kirby, Syn. Cat. diurn. Lepid.: 188 (1871). The taxon *negra* was described from "New Granada" (=Colombia"), well outside the known range of *coenia*. Accordingly, *negra* is removed from the Nearctic list. So also is ab. "weidenhammeri" Polacek, Bol. Soc. Colombiense Cien. Nat., 15: 42 (1926), also described from "Colombia".

563. Name misspelled as "*coena*" by Barnes and Benjamin, Bull. S. California Acad. Sci., 25: 15 (1926).

564. The aberration "weidenhammeri" Polacek, Bol. Soc. Colombiense Cien. Nat., 15: 42 (1926), described from Colombia, was credited to our fauna by dos Passos, Mem. Lepid. Soc., (1): 78 (1964). It is considered that this entity is an aberration of a South American *Junonia*, and the name is therefore deleted from the Nearctic list.

565. Misspelled as "*lavina*" by W. P. Comstock, J. New York Ent. Soc., 50: 190 (1942).

566. Doubleday, Gen. diurn. Lepid., 1: 214 [1849] proposed a name in synonymy, "*Celaena* (Boisduval MS.)". That this name was only mentioned and not described makes it a *nomen nudum*, and as such, unavailable. It is deleted from the Nearctic list. Even had it been validly proposed, *Celaena* Doubleday would have been a junior

homonym of *Celaena* Stephens, Nom. British Ins.: 41 (1829).

567. This species often confused with the Hispaniolan *A. lytrea* (Godart), Enc. Meth., 9: 299 [1819].

568. Members of this genus have been (incorrectly) placed in the genus *Metamorpha* Hubner, Verz. bekannt. Schmett., (3): 43 [1819].

569. Name misspelled as "*sthenele*" by Hübner, Verz. bekannt. Schmett., (3): 43 [1819] and as "*steneles*" after Blanchard, Hist. Nat. Ins., 3: 447 (1840). These variant spellings, especially the latter one, are nearly as common in the literature as is the correct one!

570. Members of this genus have been placed in the following genera: *Limenitis* Fabricius, Mag. f. Insektenk., 6: 281 (1807); *Najas* Hübner, Tentamen: [1] [1806] (a rejected name; I. C. Z. N. op. 97); *Nympha* Krause, *in* Thon, Fauna Thüringen, 4 (Schmett.) (4/5): 86 [1839] and in *Nymphalus* Boitard, Manuel Ent., 2: 300 (1828). All of these genera are extralimital and do not apply to our species, except in a supergeneric sense.

571. Scudder, Butts. E. U. S. and Canada: 296-297 (1889) describes a hybrid between *arthemis* and *archippus,* calling it "arthechippus". Such hybrid names are deleted from the synonymy and are listed in this "Notes" section as a curiosity. Apparently *Basilarchia* is comprised of many interfertile species, and the named hybrids are many (see various works by Platt, J. Lepid. Soc.; 1971 and following).

572. Name misspelled as "*prosperpina*" by McDunnough, Mem. S. California Acad. Sci., 1: 22 (1938).

573. Gunder, Canadian Ent., 66: 47-48 (1934) describes a hybrid of *archippus* and *rubrofasciata* as hyb. "rubrofasechippus" from Beulah, Manitoba. This curiosity is now in the AMNH collection. The name is removed from the synonymy of either parent.

574. The hybrid of this taxon and *archippus* was described as *Limenitis ephestion* ab. "rubidus" by Strecker, Butts. Moths N. America: 144 (1878). He attributed the name (or at least the description) to Mead, Canadian Ent., 4: 217 (1872).

575. Hybrids involving this taxon are: *Limenitis ephestion* ab. "rubidus" Strecker, Butts. Moths N. America: 144 (1878), the hybrid of *archippus* x *astyanax; Basilarchia* hyb. "arthechippus" Scudder, Butts. E. U. S. Canada: 296-297 (1889), the hybrid of *archippus* x *arthemis; Basilarchia* hyb. "rubrofasechippus" Gunder, Canadian Ent., 66: 47-48 (1934), the hybrid of *archippus* x *rubrofasciata* and *Basilarchia* hyb. "weidechippus" Cross, Hobbies, 41: 112 (1936), the hybrid of *archippus* and *weidemeyerii.*

576. Name emended to "*disippus*" by Boisduval and Leconte, Hist. Nat. Lépid. Amerique sépt.: 204 [1833].

577. The only hybrid recorded of this subspecies is *Basilarchia* hyb. "weidechippus" Cross, Hobbies, 41: 112 (1936), the hybrid of *weidemeyerii* and *archippus.*

578. The hybrid of *weidemeyerii nevadae* x *l. lorquini* is known as "fridayi" Gunder, Canadian Ent., 64: 284 (1932). This hybrid is relatively commoner than most *Basilarchia* hybrids, thus suggesting a close affinity between *wiedemeyerii* and *lorquini.*

579. This genus often equated with *Limenitis* Fabricius, Mag. f. Insektenk., 6: 281 (1807), as a subgenus.

580. Name misspelled as "*myrta*" by Skinner.

581. Name variously misspelled as "*Dynamime*" by Hemming, Gen. Names Holarctic Butts., 1: 180 (1934); as "*Dynamis*" by Kivirikko, Ann. Soc. Ent. Fennicae, 2: 56 (1936); as "*Dinamine*" by Costa Lima, Terc. Cat. Ins. viven plant. Brasil: 218 (1936).

582. Name misspelled as "*Seronia*" by W. F. Kirby, Syn. Cat. diurn. Lepid.: 206 (1871).

583. Name misspelled as "*Eubafis*" by Hayward, Opera Lilloana, 23: 209 (1973).

584. This genus is carried in most of the older literature as "*Callicore*" Hübner, Verz. bekannt. Schmett., (3): 41 [1819]. In another of the inevitable upsets of nomenclature, it was found that the type-species of *Callicore* was a representative of what had long been known as "*Catagramma*" Boisduval, *in* Roret's Suites a Buffon, Hist. Nat. Ins., Spec.

gén. Lépid., 1: pl. 9, fig. 2 (1836). The familiar *Catagramma* thus no longer is valid for any genus, *Callicore* is shifted to its present position and the way was cleared for the use of *Diaethria.*

585. This species does indeed occur in the U. S., but Howe, Butts. N. America, pl. 15, figs. 5 and 14 and dust jacket (1975) has regrettably figured as it a male of *Cyclogramma bacchis* (Doubleday) *CYBDELIS,* Gen. diurn. Lepid., 1: 219 [1847]. An excellent picture of the type specimen is given by Godman and Salvin, Biol. Cent.-Americana, Lepid. Rhop., 3: pl. 108, figs. 31-32 (1901).

586. Name misspelled as "*Mnestra*" by W. F. Kirby, Syn. Cat. diurn. Lepid.: 217 (1871).

587. Name misspelled as "*Systeneura*" by Hayward, Rev. Soc. Ent. Argentina, 4: 182 (1931), as "*Cystoneura*" by Köhler, Z. wiss. InsektBiol., 18: 24 (1923) and as "*Cysteneura*" by Hayward, Rev. Soc. Ent. Argentina, 4: 85 (1931).

588. Misidentified as "*dorcas*" by Skinner, Syn. Cat. N. American Rhop.: 19 (1898).

589. The history of *floridana* is a very unsatisfactory one with overtones of theft and possible downright fraud. No one that we know of has ever seen Strecker's reputed "types", and the insect itself may be fictitious. Nonetheless, the name sould be retained because it is possible that a population of *Mestra* does (or did) exist in southernmost Florida. The statement of Mengel contradicts the type locality for *floridana,* but it only shifts it further from probability — to Crystal River in the central part of the state. Almost certainly *floridana* was never in Florida, but the description of it is so different from any known *Mestra* that we cannot say as a certainty that it is a "fake".

590. Misapplied as *Didonis* by Scudder, Proc. American Acad. Arts. Sci., 10: 156 (1875). The true *Didonis* Hübner, Verz. bekannt. Schmett., (2): 17 [1819] is a subjective synonym of the Paleotropical *Elymnias* (Satyridae).

591. Misspelled as "*Zonagra*" by Sherborn, Index Anim., (2): 7047 (1932).

592. The "Rules" do not preclude use of a name for a higher category based on a junior subjective synonym, if there is reason to do so. Secondarily, however, we subscribe to the feelings expressed by F. M. Brown and Heineman, Jamaica. . .Butts.: 150-151 (1972) about the possible separation of the *amphinome* and *chloe* groups. Accordingly, we are using the earlier tribal name.

593. In this instance, the older tribal name is not used because it was based on a junior *objective* synonym.

594. Misspelled as "*Aganisthus*" by W. F. Kirby, Allen's Nat. Libr., Lepid. 1, Butt. 1: 175 (1904) and as "*Aganistos*" by Boisduval, Consid. Lepid. Guatemala: 53 (1870).

595. The West Indian population has been variously identified with the continental subspecies *orion* (Fabricius) *PAPILIO;* Syst. Ent.: 485 (1775) and its synonym *danae* (Cramer) *PAPILIO;* Uitl. Kapellen, 1: 131-132 [1779], both of which have been applied to the few Florida specimens that have been recorded.

596. Misidentified as *M. cinna* (Cramer), a synonym of *M. orsilochus* (Fabricius), by Swainson, Zool. Illustr., 2: pl. 95 [1833].

597. Name emended to "*chironias*" by Hübner, verz. bekannt. Schmett., (3): 47 [1819]. That name is frequently carried in the synonymy of *chiron.*

598. Name misspelled as "*thetis*" by Godart, Enc. Meth., 9: 358 [1819].

599. Misspelled as "*eleucha*" following Doubleday, List. Spec. Lepid. Ins. British Mus., 1: 86 (1844).

600. Genus often wrongly equated with *Paphia* Fabricius, Mag. f. Insektenk., 6: 282 (1807), a synonym of *Charaxes* Ochsenheimer, 1916, by virtue of being a homonym of *Paphia* [Röding], Mus. Bolten, 2: 175 (1798). In any event, *Paphia* is not a correct name for use with Nearctic species.

601. Misspelled as "*Annae*" by Fountaine, Entomologist, 46: 217 (1913), as "*Anea*" by Köhler, J. Wiss. InsektBiol., 18(12): sond. 26 (1923) and as "*Aenea*" by Bryk, Ark. Zool., (n. s.)5: 122 (1953).

602. Misspelled as "*didea*" by Weidemeyer, Proc. Ent. Soc. Philadelphia, 2: 524 (1864).

603. Misspelled as "*morrisonia*" by J. B. Smith, Bull. Brooklyn Ent. Soc., 6: 116

(1884).

604. Misidentified as *portia* (Fabricius) after Schaus, Ent. News, 9: 96 (1898).

605. Misidentified as *glycerium* (Doubleday) after W. H. Edwards, Butts. N. America, 1: pl. *Paphia* and explanation (1871) and as *troglodyta* (Fabricius) after Strecker, Butts. Moths N. America: 147 (1878).

606. The species in this genus are generally assigned to *Anaea* Hübner, Verz. bekannt. Schmett., (3): 48 [1819].

607. Misspelled as "*glyzerium*" by Fassl, Ent. Rundschau, 35: 31 (1918).

608. Misidentified, especially by older authors, as *Apatura* Fabricius, Mag. f. Insektenk., 6: 280 (1807), a related, but separate, Old World genus.

609. Scudder, Syst. Rev. American Butts.: 9 (1872) applied the Fabrician *Papilio herse*, Ent. Syst., 3: 229 (1793) to the present insect. It is a Neotropical satyrid and has nothing in common with the Nearctic apaturid.

610. Name unnecessarily emended to "*pavonii*" by Herrich-Schäffer, Exot. Schmett.: figs. 101, 102 [1856].

611. Name misspelled as "*laura*" by Hübner, Samml. exot. Schmett., 2: pl. [64] [1823].

612. The date for Boisduval's description of Satyridae was erroneously given as 1836 by L. Miller, Mem. American Ent. Soc., 24: 15 (1968).

613. The Grote description was based on a misunderstanding of what constituted the names *Satyrus* and *Agapetes*. This misunderstanding led Verity, Farfalle diurn. d'Italia, 5: 3, 46 (1953) to rename the wholly Palearctic tribe Melanargiini.

614. Subsequent restriction of the Eurytelidae to a tribe of the Nymphalidae: Nymphalinae makes use of that name in the Satryidae homonymous.

615. This subfamily was renamed the following year by Grote, Mitt. Roemer Mus. Hildesheim, (8): 20-21 (1897), so the Grote name is not only synonymous, but is also a homonym.

616. Members of this genus are considered to be in the genus *Lethe* Hübner, Verz. bekannt. Schmett., (4): 56 [1819] (type-species: *Papilio europa* Fabricius, Syst. Ent.: 500; 1775) by many authors. The genus "*Lethe*" is a "catch-all" with many look alike and related subspecies, but generic lines seem rather more clearcut than those of other, more accepted, genera in the Nymphaloidea. The same may be said about the genus *Debis* Doubleday and Hewitson (Gen. diurn. Lepid., 2: pl. 61, fig. 3 [1849]), which, with its type-species, *samio* Doubleday and Hewitson, Gen. diurn. Lepid., 2: pl. 61, fig. 3 (1849), refers to an Old World assemblage of species.

617. Occasionally misspelled as "*jortlandia*" or "*iortlandia*" after Fabricius, Mant. Ins., 2: 45 (1787). W. H. Edwards, Canadian Ent., 14: 87 (1882) misspelled the name "*portlandica*".

618. While Skinner's HT was from Louisiana, he stated that the female specimen was from the Strecker collection; that individual is actually a specimen of *portlandia missarkae* from "Texas".

619. Despite the rather persuasive arguments put forward by Cardé, Shapiro and Clench Psyche, 77: 74 (1970), we are still unconvinced that the name *eurydice* refers to this species. Nonetheless, their designation of a NT for the name makes the argument pointless unless Johansson's original type can be found.

620. Godart, Enc. Meth., 9: 493 [1823], mentions the name "*cantheus*", but attributes it to Linnaeus and states that his description is translated from Johansson [Linnaeus], Amoen. Acad., 6: 406 (1763). This makes the Godart usage a *lapsus calami*, and the name should be dropped from the synonymy forthwith.

621. Cardé, Shapiro and Clench Psyche, 77: 74 (1970) claim that Gosse's description of this name does not give sufficient detail to discriminate the name from others occurring in the same area. They may be right, but the name seems to us to have been properly proposed and it is here treated as valid, not as a *nomen nudum*.

622. dos Passos, Mem. Lepid. Soc., (1): 99 (1964) attributes this name to Morris, Synopsis of the described Lepidoptera of North America, 1: 74-75 (1862), but Morris himself did not give a full description and attributed it to Harris. We are accepting Morris' own words here. The name has been emended often by doubling or making

single both the "i" and the "l".

623. Many older writers have placed members of this genus in *Neonympha* Hübner, Zutr. z. Samml. exot. Schmett., 1: 8 (1818), a genus whose type is *areolatus* (J. E. Smith), a very different euptychiine.

624. After examining the male genitalia of many *Hermeuptychia*, the senior author is convinced that much needs to be done on the taxonomy of the group. He further doubts, based on the usual pattern of euptychiine distribution, that exactly the same *Hermeuptychia* is found in southern Texas that was described from Rio de Janeiro. Positive evidence of this may never be available, however, since the male type of *H. hermes* housed in the Banks collection at the BM lacks not only one hindwing, but also the abdomen. Similarly, without a specimen to refer to and only Hübner's original plate of *Oreas canthe*, it is impossible to tell which of the many "hermesoids" it represents.

625. Fabricius' many uses of the name *phocion* [see **Note 83**] have confused systematists for years. The name *Papilio phocion* must be restricted to an African skipper, hence is unavailable for the Nearctic satyrid.

626. The French types have not been located in any collection in which they could be expected. The most logical guess was that they were at Southern Illinois University in Carbondale, Illinois, but searches through the holdings of that collection have been fruitless. These types must be considered lost.

627. Fabricius apparently reversed the data on two specimens from the Hunter collection, *Papilio eurytus* ("Jamaica") and *Papilio zangis* ("Carolina"). Neither species occurs in the stated locality, but does occur in the other's area. Therefore, the type localities should be emended.

628. There is some question as to whether or not this name was meant as a new one or a replacement for *eurytus*. The specimens cited in the two publications referring to these names are in two different collections: if the name was meant as a replacement, the types of *eurytris* would still be in Glasgow, if not, the disposition of the types would be as given. This name was misspelled as "*eurythris*" by Godart, Enc. Meth., 9: 494 [1823], and as "*eurytis*" by dos Passos, Mem. Lepid. Soc., (1): 100 (1964).

629. Actually, Butler named a *nomen nudum* as the type of the genus; this name is suppressed in favor of the valid one for this insect.

630. This species is usually (incorrectly) identified as the Mexican *P. xicaque* (Reakirt, Proc. Acad. Nat. Sci. Philadelphia, [1866]: 336-337 [1867]), a related but separate species.

631. This tribe was subsequently renamed in 1968 by L. Miller (Mem. American Ent. Soc., 24: 95-98; 1968). The Miller name is therefore both a synonym and a homonym of Tutt's Coenonymphini.

632. This generic name was attributed to Guénée by both [Dunning and Pickard] and in a subsequent redescription by Doubleday, Zool. Syn. List British Butts., ed. 2: 2 (1859). The Doubleday usage is both a synonym and a homonym of the [Dunning and Pickard] name.

633. This, and all succeeding members of the genus are referred by many authors to the Palearctic *tullia* (Müller) *PAPILIO*, Faun. Fridrichsdalinae nov. . .: 36 (1764). We are here using *tullia* as the senior name in a superspecies complex that includes members throughout the Holarctic.

634. This taxon may actually be a lightly marked *ochracea mackenziei*, in which case the present name would supplant *mackenziei* in the latter's position in the list.

635. Unnecessarily emended to "*macisaaci*" by dos Passos, Mem. Lepid. Soc., (1): 101 (1964).

636. Name often misspelled as "*californica*" after Hy. Edwards, Papilio, 1: 51 (1881).

637. This tribe was redescribed both by Hampson, Novitates Zool., 25: 385 (1918) and Verity, Farfalle diurn. d'Italia, 5: 228, 237 (1953). The former author was the one to whom L. Miller, Mem. American Ent. Soc., (24): 98 (1968) attributed the name Maniolini.

638. Members of this genus have frequently been referred to *Minois* Hübner, Verz. bekannt. Schmett., (4): 57 [1819], a superficially similar, but structurally very different,

Palearctic genus, as explained by L. Miller, Mem. American Ent. Soc., (24): 99 (1968).

639. The type-series of *wheeleri* and *hoffmani* were one and the same; Hoffman split the series between W. H. Edwards and Strecker. The latter predated his description of *hoffmani* in an attempt to establish precedence, but he made the mistake of referring to a later paper in the same signature. Therefore, the Edwards name must take precedence, as shown here (and in virtually all recent publications).

640. One of the ST's of *magdalena* has a label on it by N. W. Gillham in 1958 designating it as the LT of this species. We have been unable to find a published account of this action, hence, the specimens are coequal nomenclatorially.

641. This name is included here not so much because we expect it to be found in Alaska, but rather because it may antedate Holland's *avinoffi,* male PT's of which are included from Siberia.

642. Name emended unjustifiably to "*macdunnoughi*" by dos Passos, Mem. Lepid. Soc., (1): 105 (1964).

643. The aberrational name "sineocellata" was used for this subspecies by dos Passos, Mem. Lepid. Soc., (1): 105 (1964).

644. Often misidentified as *tyndarus* (Esper) *PAPILIO,* Die Schmett., 1(2): 97 (1781), after Holland, Butt. Book, rev. ed.: 205 (1931).

645. Name misspelled as "*Geirochilus*" by W. H. Edwards, Trans. American Ent. Soc., 5: 18 (1874), as "*Gyrochilus*" by W. F. Kirby, Zool. Rec. (Ins.), 18: 160 [1882] and as "*Girocheilus*" by F. M. Brown, Trans. American Ent. Soc., 90: 408 (1964).

646. Members of this genus have been classified erroneously as belonging to *Eumenis* Hübner, Verz. bekannt. Schmett., (4): 58 [1819], a related, but separate Palearctic genus.

647. Often misspelled as "*dionysius*" following Barnes and McDunnough, Check List Lepid. Bor. America: 6 (1917).

648. Name misspelled as "*invallda*" by Tilden, Wasmann J. Biol., 17: 261 (1959).

649. Name misspelled as "*dauria*" by Barnes and McDunnough, Check List Lepid. Bor. America: 6 (1917).

650. Interestingly, when dos Passos assigned the type-locality for *bootes,* he did not designate a neotype nor a lectotype. The putative "type" in the USNM does not agree with the original figure of *bootes,* but it may be the Kamchatka specimen referred to in the original description. A thorough job of looking into this problem is needed; with the exception of the USNM specimen, no authentic Boisduvalian syntype (if it is one) exists.

651. Gaede, Lepid. Cat., (43): 87 (1931) credits the name to "Esper, 1790" and refers to plates 100 and 108; the plates in question were actually issued in the supplement which was released in 1805.

652. Unnecessarily emended to "*mackinleyensis*" by dos Passos, Mem. Lepid. Soc., (1): 104 (1964).

653. Name offered to validate usage by Wyatt, Zts. Wiener Ent. Gesell; 50: 70-71 (1965) of the name "*harperi*" but not adequately described.

654. Name misspelled as "*polyxenes*" by Riley and Gabriel, Cat. Type Spec. Rhop. British Mus., (1) Satyridae: 47 (1924). This citation is not too surprising, inasmuch as the specimen itself has a label under it giving the variant spelling "*polyxenes*". Adoption of this variant, however, would cause nomenclatorial upset, but fortunately, Fabricius' original spelling of *polixenes* is valid under the "Code" as a name totally separate from "*polyxenes*".

655. Originally described as "Danaides".

656. This genus is presently undergoing extensive revision by lepidopterists at the British Museum (Natural History). Their preliminary findings are that *Danaus* is badly in need of extensive division. Whatever the outcome of that study, *plexippus* (Linnaeus) will remain as the type of *Danaus,* but the other species found within our limits may be transferred to *Anosia.*

657. Genus also described (invalidly) as *Limnas* Hübner, Tentamen: [1] [1806]. Name rejected by I. C. Z. N. (Op. 97).

658. Redescribed with the same spelling and type-species by Latreille, Gen. Crust. Ins., 4: 201 [1809].

659. Name misspelled as "*Salaturia*" by Swinhoe, Trans. Ent. Soc. London, [1893]: 268 (1893).

660. Name misspelled as "*Chitira*" by Grünberg, S. B. Ges. Naturf. Fr. Berlin, [1908]: 290 (1908).

661. Moore redescribed the genus the following year in the same publication, fortunately with the same spelling and type-species.

662. Name misspelled as "*Ravadebra*" by Rotshchild, Iris, 5: 431 (1892) and as "*Revadebra*" by Grose-Smith, Novitates Zool, 2: 77 (1895).

663. Name misspelled as "*Chlorochopsis*" by Fruhstorfer, Berliner Ent. Zts., 44: 76 (1899).

664. Often misidentified in literature as *menippe* Hübner or *megalippe* (Hübner), South American insects. Such phenotypically similar organisms occur sporadically as forms or aberrations of typical *plexippus* in the Nearctic.

665. Name misspelled as "*gilippe*" by Godart, Enc. Meth., 9: 186 [1819].

666. Name misspelled as "*eresime*" by Godart, Enc. Meth., 9: 185 [1819].

667. Often misidentified as *D. cleothera* Godart, Enc. Meth., 9: 185 [1819], a very different West Indian insect.

668. Originally described as "Itunini".

669. Originally described as "Lycoreanae".

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alaskensis (Clossiana). 581b, N469, N470.
alaskensis (Erebia). 742b.
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